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PUBLISHED WEEKLY AT 42 CANNON ST., LONDON, E.C.4.

SUBSCRIPTION, WITH
DIARY 20/- PER ANNUM
SINGLE COPIES 9d.

. 2222

AUGUST 26, 1922.

Vol. XCVII.

Good News for the Diabetic.

"Allenburys" Diabetic Flour

makes appetising loaves and rolls of carbohydrate free bread, as well as biscuits, cakes, etc., which can be prepared at home.

*Why not introduce it to
your Medical Friends?*



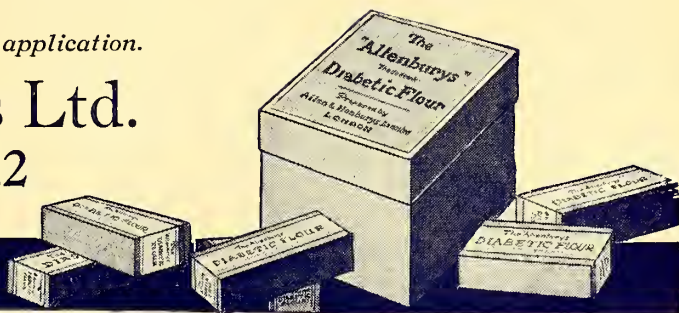
A Doctor writes:—

"I have tested the sample of 'Allenburys' Diabetic Flour which you recently sent me, and find it makes admirable bread, etc.; it is both more easily digested and more palatable than any similar preparation I have come across."

IN BOXES OF 6 AND 12 PACKETS

Samples and Literature will be sent on application.

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AUGUST

Glaxo

1922

Chemist's Price List

Glaxo and Glaxo Malted Food

	Retail Price.	Net Cost Per Dozen.	Special Net Terms per dozen for Glaxo or mixed parcels of Glaxo and Glaxo Malted Food.			
			£6 Orders.	£12 Orders.	£25 Orders.	£50 Cash with Order.
Standard	1/6, 5-oz.	14/5	14/1	13/8	13/4	13/-
Glaxo	2/6, 10-oz.	24/-	23/5	22/10	22/2	21/7
(Full-Cream)	4/6, 20-oz.	43/2	42/2	41/-	40/-	38/11
	7/6, 36-oz.	72/-	70/2	68/5	66/7	64/10
Glaxo Malted Food	1/3 tin	12/-	11/8	11/5	11/1	10/10
	2/4 "	22/5	21/10	21/3	20/9	20/2

Glaxo Malted Food to the net value of £5 will be supplied by the Authorised Glaxo Distributors at the £50 rate, and sent carriage paid if cash accompanies order. Special Net Terms for £25 and £50 orders apply only in England and Wales.

SPECIAL LINES				Retail Price.	Net Cost to Retailer.
Glaxo No. 1 (Half-Cream)	...	...	...	2/6 (10-oz.)	24/- per doz.
Glaxo No. 2 (Three-quarter Cream)	...	...	...	3/- (12-oz.)	28/10 "

Glaxo Accessories

	Retail Price.	Net Cost.
Glaxo Complete Feeder ...	1/6 in carton	13/6 per doz.
" Spare Feeder ...	1/- "	9/- "
Premature Feeder (4-oz.) ...	1/6 "	13/6 "
Miniature Feeder (2-oz.) ...	1/9 ea. or 3/- pr.	13/6 "
Glaxo Teats (7 kinds) ...	4d. each	3/- "
Nursling Teat ...	9½d. "	8/6 "
Glaxo Valves ...	3d. "	2/3 "
Aluminium Food Measure ...	6d. "	4/6 "
Bottle Mop ...	4d. "	3/- "
Maternity Belt (2 sizes) ...	9/6 "	7/6 each

Notes for Retailers.

Glaxo Miniature Feeders are not supplied in separate cartons, but in special boxes containing two Complete Feeders. Chemists can obtain these boxes direct, in cases of urgency, at 2/6 each, postage included, by sending a postal order to Glaxo Sales Department.

Glaxo Teats are supplied in the following seven varieties:— Ordinary (1 Medium

Square Hole), Fine Hole, 1, 3, or 5 Leech-bite, Blind, and Premature.

Carriage is paid on Glaxo and Glaxo Malted Food, or on mixed parcels of these two lines, to the value of not less than £3 net; also on 3 dozen Complete or Spare Feeders, and on Glaxo Teats and Valves. The terms quoted for the Maternity Belt include postage.

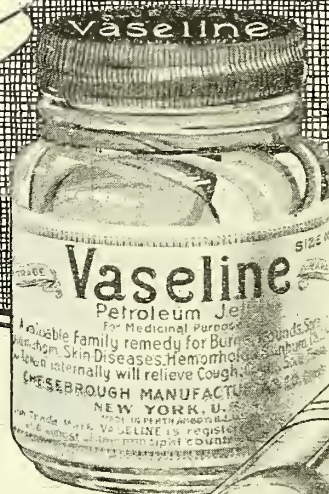
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a
Hundred
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AND PATRONS OF THE
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on Outlay of £7-18-0

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is assured of ready sales to those of your customers who now purchase powders and face creams.

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





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For the immediate production of

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Guaranteed to conform to all requirements of the B.P.

-  Highly concentrated soft extracts which represent all the essential principle contained in the corresponding Tincture, Infusion, etc.
-  The Extracts are free from spirit, take up very little room, so that freight and charges are merely nominal.
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This Illustration shows the Patent Shock Absorber and the glass refill marked "Thermos."

No. J.22.

SPECIFICATION.

Brown Enamelled body with trade-mark name "Thermos" in silver; aluminium cup and shoulder, with detachable handle to cup; "Thermos" Shock Absorber and refill; superfine cork and parchment cover.

THERMOS

LTD.

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A NEW FLASK and Prize Competition.

The J.22 is a new Flask retailing at 5/-. It has our standard refill and Patent Shock Absorber (see specification.) It is a great seller and should be stocked by all Dealers.

With the introduction of this Flask a

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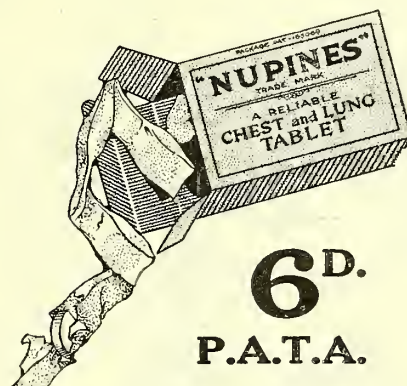
News—good news!

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—otherwise you'll have the line as it has been for years—the generous profit, and the highest possible quality tablet. Nupines always have been one of the best little sellers we've ever touched. The truth is of course that they really are a fine tablet at a very reasonable price. We're looking for big things from the advertising—the line is suitable for it. We've figured it out and bearing in mind the thoroughness of the drive we're going to make we really feel you can get an appreciable amount of benefit from it if you'll stock and give the line a decent showing. But there is a definite limit to the rate at which we can pack this year—requires special machinery. It is only fair, therefore, for us to recommend our friends to make their reservations now.



Per 48/- gross.

A new Nupine window display with all orders for 3 gross.

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Attractive Showcards Supplied

SAMPLES ON APPLICATION.

**EUCRYL, LIMITED,
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Maw's



Page

August 26th, 1922.

No. 567.

The Hall-mark of the Progressive Pharmacy is a display of—

MERITOR Brushware

A display of "Meritor" Brushware is fast becoming the hall mark of progressive pharmacy, because the progressive pharmacist realises the importance of the idea behind the "Meritor" series—the protection of toilet brushware business against outside competition.

Think for a moment of the extent of the toilet brushware market. Practically every member of the community is a possible customer for tooth brushes or dental plate brushes and hair brushes. Most of the adult male population are prospective purchasers of shaving brushes. Nail Brushes and Bath Brushes are an important market in themselves. And all these brushes need replacement from time to time.

Think what the annual turnover in toilet brushware must be. Think also how important it is that you should have at your disposal the means of securing a reasonable proportion of this business and protecting it for yourself.

This is just what the "Meritor" series gives you. "Meritor" Brushware enables you to increase your toilet brushware business because it provides you with a complete series of branded toilet brushware of reliable quality and reasonable price, packed and presented in the most effective manner conceivable and supplied with an attractive range of original advertising material.

"Meritor" Brushware protects your toilet brushware business because it is supplied only to qualified pharmacists and can only be purchased from them. When you build goodwill for "Meritor", you are building future profits for yourself. The name "Meritor", the "Meritor" seal, the distinctive "Meritor" carton, in fact the whole idea of the "Meritor" series is virtually the property of the qualified pharmacist.

Buy "Meritor" Brushware, Display "Meritor" Brushware, Sell "Meritor" Brushware. It will pay you both now and in the long run.



S. Maw, Son & Sons. Ltd.
Aldersgate St., London,
and Barnet.

Telephone :
City 7
Private
Branch
Exchange

Telegrams :
Eleven
Cent
London

Cables :
Eleven
London

Code :
A.B.C.
4th & 5th
Editions



YOU HAVE NO DOUBT NOTICED IN THE
PRESS THE FOLLOWING ADVERTISEMENT

"PELDO" YOUR HANDS FIRST

Perhaps some of your customers have enquired from you about it?

If you do not already know "Peldo" we shall be pleased to send you a Trial Tube post free, so that you may learn all about it; you will then have a very interesting subject to talk about to your customers.

The following Testimonials are interesting:—



"Dear Sir,—I have now for the past 17 years washed, cleaned and done everything necessary to my car myself and have benefited greatly thereby. The only drawback to doing everything for the car with my own hands is the difficulty of keeping these members clean and presentable. After using many soaps and other concoctions I have *at last* found a way of keeping my hands in a gentlemanlike condition.

I am not an agent for, and do not wish to advertise any particular wares, but in the interest of other men who look after and keep their own cars will you tell them that 'Peldo' is all that is claimed for it by the makers."



"Dear Sirs,—After using 'Peldo' Skin Cream I feel that motoring has been robbed of its last remaining drawback.

It is now possible to be a practical motorist, and also a gentleman—at least as far as one's hands are concerned."



"Dear Sirs,—About three weeks ago I wrote to you asking for an address in Sheffield where I could buy your 'Peldo.' I purchased a tube at Messrs. ———

I thought I would like to tell you what a wonderful invention it is. My hands are always more or less, in a bad condition in spite of using all kinds of Cream, but after *one* week of 'Peldo' they are beautifully soft and clean.

Wishing you every success."



"Dear Sirs,—Having just finished a complete overhaul, and dismantling and refitting of a J.A.P. Engine fitted to my Morgan, I feel I must write to congratulate you on having put on the market an absolute boon and blessing to all motorists who, like myself, like to do their own repairs, and don't care to have to use a file to remove the dirty oil and grease which seems to have such affinity for one's hands. Your claims for 'Peldo' are more than justified. I shall never be without it and regard it as an invention second only to that of the Petrol Engine itself.

Wishing you every success, which is richly deserved."



RETAIL PRICE

**1/6 EACH
NET**

(P.A.T.A.)

Attractive Window Display material and Showcards supplied. Sample Tubes supplied gratis in proportion to quantity ordered.

WHOLESALE PRICE

**13/6 PER
DOZ.**

In order to introduce "Peldo" we are offering a special bonus for a guaranteed window display of not less than 14 days as follows:

On orders of 1 gross a bonus of 18 full-size tubes.

On orders of 6 dozen a bonus of 8 full-size tubes.

On orders of 3 dozen a bonus of 3 full-size tubes.

Further particulars on application to

C. R. HARKER, STAGG & MORGAN, LTD.

Devon Wharf and Bell Wharf, Emmott Street, MILE END, E.1.

"Some time ago I purchased

a Stick of your Emollient Shaving Soap which has pleased me more than any other similar preparation I have ever used. . . ."

So writes a Naval Staff-Surgeon stationed on the British West African Coast and his testimony has been endorsed by every user.

Advertising tells, but so too does *man to man* recommendation, and the Pharmacist who puts prominently forward the

MIDGLEY'S EMOLLIENT CREAM SHAVING STICK

instead of dissipating his energies and opportunities over a host of makes, taking special interest in neither, displays the true business perspicacity which turns the *casual* into a *regular* customer!

Satisfy yourself first of the accuracy of our Correspondent's candid opinion by writing us for a free full-size Shaving Stick for personal trial.

We have brought down the Retail Price to **One Shilling** in anticipation of lower costs of containers, etc., and because we consider the *best* Shaving Stick ought to be available at that figure. *Wholesale is 8/9 dozen.*

The *retail* price of the Refill—same size, in carton, but without the nickelled case—is **Ninepence**. *Wholesale 6/3 dozen.*

Bonus of 3 dozen free samples with each 6 doz. Standard size or *pro rata*.

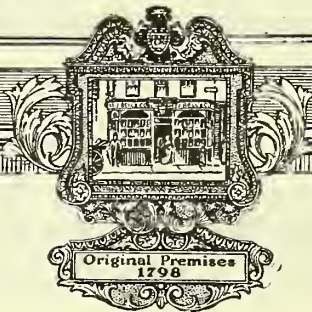


Our New Price List is now ready and contains many price reductions.

It is the most exhaustive Soap List circulating in the Drug-trade.

George Holliday & Co. Ltd.,
TORULA WORKS, MANCHESTER.

Wholesale Distributors—EVANS SONS LESCHER & WEBB, Ltd., Liverpool and London.



The "MARYLEBONE"

STERILIZED

ACCOUCHEMENT OUTFITS.

These Outfits contain sufficient dressings, etc., for the accouchement.

THE "MARYLEBONE" OUTFITS are always "GOOD STOCK" as the contents cannot deteriorate or become soiled, and sterility is maintained.

Retail Prices :

No. 1 Outfit

31/6

No. 2 Outfit

63/-

Trade Terms and descriptive literature on application.

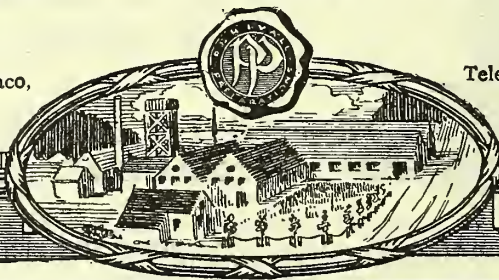
IT WILL PAY the Pharmacist to hold stocks of these outfits. A large demand is being created by means of an intensive Press campaign.

JOHN BELL & CROYDEN, Ltd.

50 Wigmore Street, LONDON, W. 1.

Telegrams : " Croybelaco,
Wesdo, London."

Telephone: Mayfair 5015
(4 lines.)



Seize
the
Season's trade
in

Ayrton's

HOT

WATER BOTTLES

Finest grey rubber supported with texture sheeting—reinforced seams—improved flush screws. The finest example of manufacturing skill and design to be seen this season.



8×6	10×6	10×8	12×6
3/4	3/8	4/-	3/11 each
3/3	3/6	3/10	3/9 „ in 1-doz. quantities
3/1	3/5	3/9	3/8 „ in 3-doz. quantities
12×8	12×10	14×8	14×10
4/8	5/4	5/-	6/- each
4/6	5/2	4/10	5/10 „ in 1-doz. quantities
4/5	5/1	4/9	5/6 „ in 3-doz. quantities



Chemists' own name moulded on quantities of not less than 6 dozen.

SUPREME QUALITY—COMPARE PRICES

Special quotations for Export.

AYRTON, SAUNDERS & Co., Ltd.
Manufacturing Chemists. **Liverpool, Eng.**

Telegrams: "Sundries, Liverpool."

Telephone: Royal 4861.

Destroys
Germs.

KILLS GERMS SPRAZONE PURIFIES THE AIR

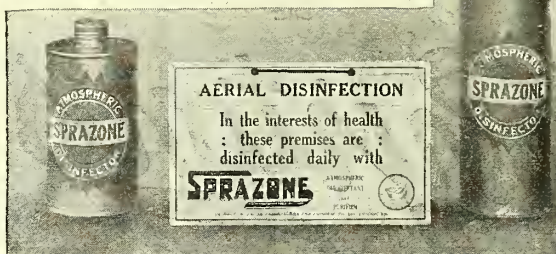
Approved
by
Eminent
Bacteriologists.

World's Greatest Atmospheric Disinfectant.

USED DAILY FOR SPRAYING OFFICES, FACTORIES, INSTITUTIONS AND THE HOME.

Complete Outfits Consisting of Sprayer, Filter Funnel, and Size (a) Container sufficient to make 2 Gals.
£1 1 0

Refills.
Size (o) 6/9
" (a) 12/6



(Awarded the Order of Merit by the Council of the Institute of Hygiene.)

Ideal Reform Outfits consisting of Nickel pump Sprayer, Filter Funnel and Concentrated Essence to make 1 qt. 6/6

Refills.
Size (b) 17/6
Trial bottles 1/9

LIBERAL TRADE DISCOUNT

United Laboratories & Chemical Co. LTD.

Regd. Office: 97 Queen Victoria St., London, E.C.4 Laboratories: Causeway House, S.E.1

"TREATISE ON THE HOUSE-FLY."—A scientific and interesting pamphlet just published, 3d. Post Free.

EXPORT ENQUIRIES
INVITED FOR

SPRAZONE (Standard)
ATMOSPHERIC
DISINFECTANT.

SPRAZONE (FLY)
SOLUTION.

Foreign Agencies Entertained.

A Household Boon "ERADICUS"

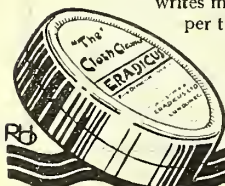
You will be asked for "Eradicus." Can you supply? Get Sample and Special Trade Terms now. The advertising to the public in the "Daily Mail" and other media has commenced.

THE UNIVERSAL CLEANSER THAT ERADICATES ALL STAINS & DIRT

Nothing like it on the market. Instantly removes all stains and dirt from everything, from the daintiest fabrics to the heaviest carpet, including Clothing, Upholstery, Gloves, Boots, Raincoats, Leather Goods, Paint, Enamel, etc., etc. A wonderful discovery.

Full instructions with every box. A free sample tin and all particulars sent to any Retailer who writes mentioning this paper. Sells at 1/- per tin. Write now to—

ERADICUS LTD.
4 Lime St., London,
E.C. Phone: Avenue 5794.



Drummer Dyes

A sure business
puller

There is no experiment in stocking Drummer Dyes: there is no doubt about Drummer Dyes in your customers' minds, and therefore no room for doubt in yours. Simply keep Drummer Dyes before your customers' eyes and you will prove what a hold these reliable home dyes have on them.

26 Colours.

Retail at 4d. each as
nationally advertised.

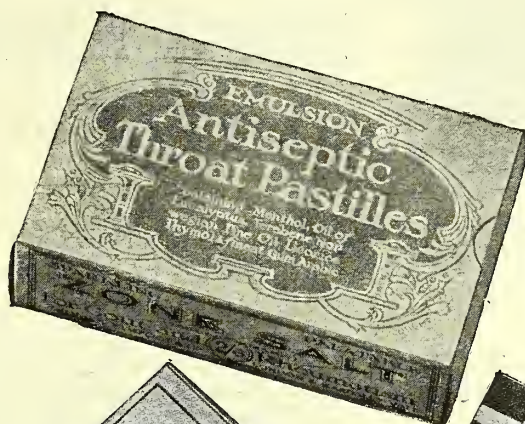
Trade Terms, Showcards,
e.c., from:

Wm. EDGE & SONS,
BOLTON. LTD.,

Canadian Offices:
MACLURE & LANGLEY,
Toronto and Montreal.

DRUMMER DYES

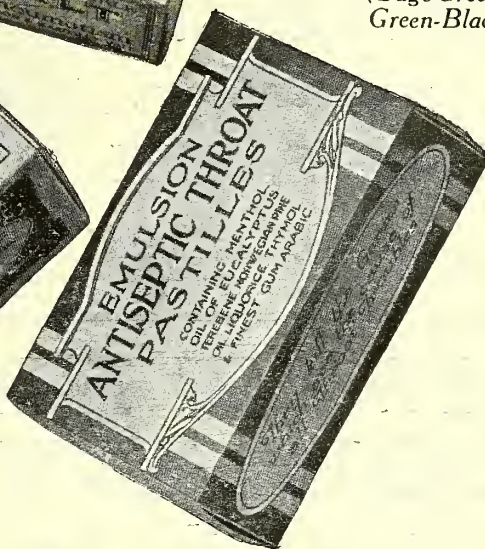
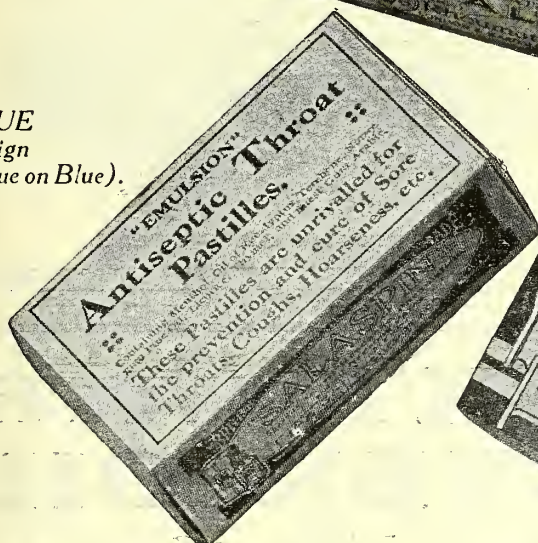
Q.3.



ADAM
Design
(Brown on Brown).

NORFOLK
Design
(Sage Green &
Green-Black).

BLUE
Design
(Blue on Blue).



CARTONS

for EMULSION THROAT PASTILLES

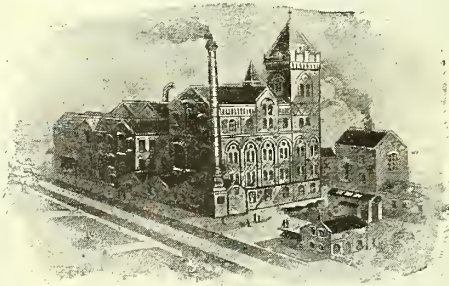
Chemists ordering Emulsion Throat Pastilles have the option of purchasing, at a price much below actual cost, supplies of any of the above Cartons with their names and addresses printed thereon.

Write to-day for specimen cartons and particulars of price.

THOMAS KERFOOT & CO LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

BEDFORD ST. MILLS & MALT EXTRACT FACTORY



“JOHN BULL” MALT EXTRACT IS THE BEST!!

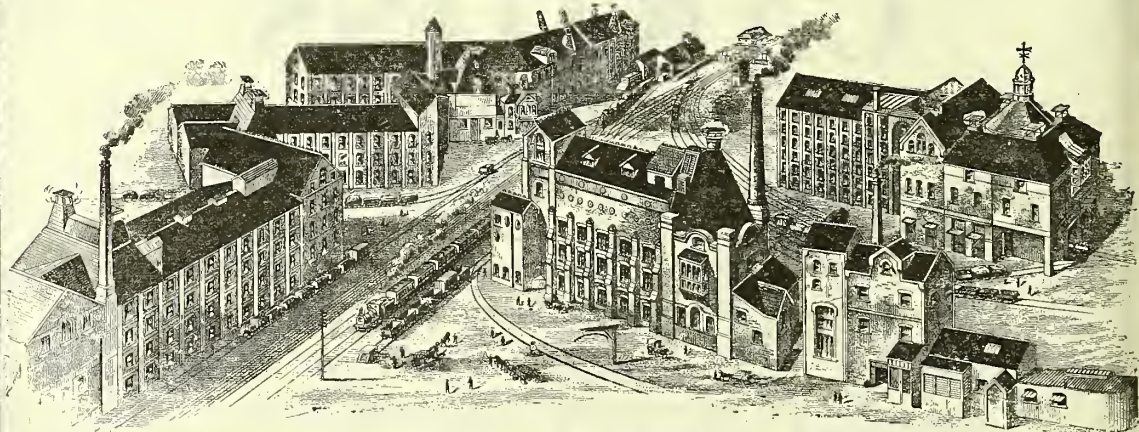
SUPPLIED PLAIN OR WITH THE FINEST MEDICINAL COD LIVER OIL.
In Bulk or Packed in Jars, Tins, &c., FOR HOME AND EXPORT.

PAINE & CO. Ltd.,
MALT EXTRACT WORKS,
ST. NEOTS, HUNTS



BROOK ST. MALT EXTRACT FACTORY.

**MALT EXT. WITH
COD LIVER OIL**
Direct from the Actual Manufacturers.



THE BRITISH DIAMALT COMPANY'S WORKS AT SAWBRIDGEWORTH.

City Office—9 Holborn Viaduct, London, E.C. Northern Office—Arcade Bldgs., 85 Lord St., Liverpool

"Cynta" Hygienic "Towelines."

REG.

REG.

Mass production and the most modern methods of manufacture now enable us to offer the High-Class "CYNTA" Hygienic "TOWELINES" at prices within the reach of everyone.

Size	0	1	2	3	4	5	6
TRADE PRICES	6/9	8/4	11/4	13/10	15/9	18/9	22/2
	Per gross						
RETAIL PRICES	10d.	1/0	1/4	1/8	2/0	2/4	2/9
	Per packet of 1 doz.						

ONE SAMPLE PACKET
OF EACH SIZE, 1, 2, 3,
SENT POST FREE ON
RECEIPT of P.O. VALUE
2/9.

Order your supplies through
your Wholesale House. We
invite comparison for QUALITY
and VALUE.

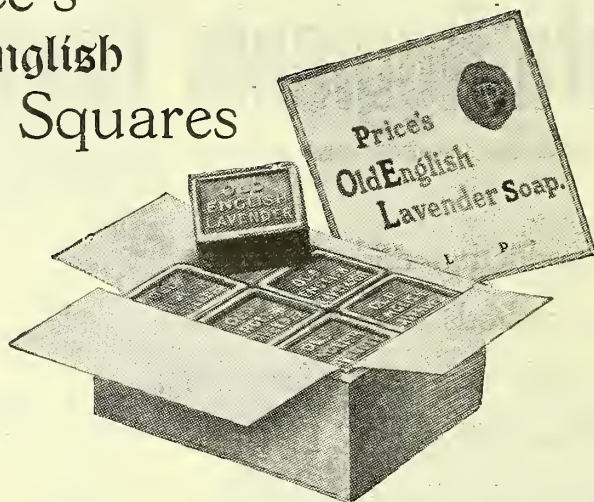
SAMPLES FREE on application to

The CYNTA MANUFACTURING Co.

St. Thomas' Place, STOCKPORT.

Facsimile of 12-Tablet Box.

Price's Old English Lavender Squares



One of the most popular Soaps of the day.

Quotations and Samples on application to :

Price's,
Battersea,

S.W.11.

Cellophane

What Is It?

CELLOPHANE

is a **transparent** film of pure Cellulose, **absolutely** air, grease, and odour proof, **unaffected** by cold, heat or moisture, and **sterilisable**.

An **ideal wrapping** for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, Sponges, etc. etc.

Will keep your Goods, Boxes, Bottles, and delicate Labels **clean** on the Counter and in Shop Windows, allowing the Articles to be seen **by transparency**. Can be had colourless, coloured and embossed.

Also in the shape of **Labels** for Bottles, and **Discs** for Creams, Ointments, Boot Polish, &c.

Cellophane Envelopes, printed or not.

Agents Wanted where not represented.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(GUSTAVE LECLERCQ),

7, 8 & 9 Bird Street, LONDON, W. 1.

GILLETTE BLADES

Great Reduction NOW.

All clean, fresh stock. U.S.A. make.

One box of 10 dozen ... $3\frac{1}{2}$ per dozen,
less $2\frac{1}{2}\%$ discount for cash with order.

*No allowance of any kind can be
made for blades previously purchased.*

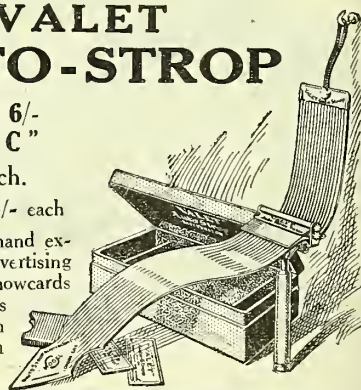
VALET AUTO-STROP

The New 6/-
Model "C"

4/6 each.

Dozen lots 4/- each

Enormous demand expected. Advertising matter and showcards gratis. Orders executed in strict rotation



H. A. CANNON, 41 High Holborn, W.C.1



Now Stocked by all the leading Wholesale Houses.

MINIMUM P.A.T.A. PRICES

- | | | | |
|--|------------|-------------------------------------|------------|
| No. 1. Large Wickers | 56/- each. | No. 4. 6-oz. Square (in boxes of 3) | 14/- each. |
| No. 2. Medium " | 30/- " | No. 5. 4-oz. size (in boxes of 6) | 8/9 " |
| No. 3. Small " | 15/- " | No. 6. 2-oz. size (in boxes of 6) | 4/9 " |
| No. 43. 1-oz. Watch Shape, with Sprinkler, 2/6 each. | | | |

FOR FULL PARTICULARS OF TERMS AND DISCOUNTS APPLY TO—

R. J. REUTER - 69 CARTER LANE, E.C. 4

& 4711.  Eau de Cologne



2388

NON-SEPARABLE.

1 oz. ...	4/9 doz.
2 " ...	7/- "
3 " ...	9/- "
4 " ...	11/- "

SEPARABLE.

1 oz. ...	5/3 doz.
2 " ...	8/- "
3 " ...	10/6 "
4 " ...	12/6 "



2963

NON-SEPARABLE.

3 oz. ... 9/- doz.

SEPARABLE.

3 oz. ... 10/6 doz.

SHOW CARDS
and
CUSTOMER'S NAME

free on 3 doz. of a style
assorted sizes.



3394

IN OVAL GREEN ENAMELLED
TINS.

7/6 doz. 84/- gross.

Write for full illustrated list and specimens of labels.

Telephone:
HOP 4170
(2 lines).

WILLIAM TOOGOOD LTD.
77, SOUTHWARK ST.
LONDON, S.E.1.

Telegrams:
"TOOGOOD,
BOROH,
LONDON."

Daily Express

Gigantic Advertising Campaign £10,000 Free Gift weekly

BY special arrangements with the "Daily Express" our great offer of Reduced Price Coupons will appear almost daily in this paper, and involves a free gift of over £10,000 weekly to its readers. Live chemists who do not already stock our specialities should get a supply at once and share in the



Profits to Chemists of from 50 to 75⁰/₀

September Programme

Tuesday, September	5	..	..	11" x 4 columns
Wednesday	6	..	..	11" x 2 "
Friday	8	..	..	11" x 2 "
Monday	11	..	..	11" x 2 "
Wednesday	13	..	..	11" x 2 "
Friday	15	..	..	11" x 2 "
Saturday	16	..	..	11" x 2 "
Monday	18	..	..	11" x 2 "
Tuesday	19	..	..	11" x 2 "
Thursday	21	..	..	11" x 2 "
Friday	22	..	..	11" x 2 "
Monday	25	..	..	11" x 2 "
Wednesday	27	..	..	11" x 2 "
Friday	29	..	..	11" x 2 "
Saturday	30	..	..	11" x 2 "

REPRESENTATIVES WANTED AT ONCE

Live men with sound connections who desire to improve their position and who are accustomed to a large turnover should apply at once by letter only. All letters received will be treated as confidential. Only four-figure men need apply to

Sales Manager,
Areco, Ltd., Parisian Perfumers,
59 New Bond Street, London, W.1.

Special "Daily Express" Window Bills Free.

OVER 8,000,000 COUPONS WILL BE DISTRIBUTED EVERY WEEK

FOR PRICE LISTS AND FULL PARTICULARS WRITE:

ARÉCO

LIMITED

Phones:
Mayfair 4602
Bishopsgate 1238
London Wall 215

59 NEW BOND ST.,
LONDON, W.1.

Telegraphic
Address:
"Arecoadvor,
London."



TWO VERY POPULAR LINES

SILKODONO

for the HAIR & SCALP

When you stock Silkodono and Shonpone you are assured of profitable and recurring sale. Demand has been fostered by extensive advertising in leading newspapers and magazines and by distribution of thousands of Free Samples. Silkodono and Shonpone always give satisfaction to your customers as they do everything we claim for them and in addition represent particularly good value. Not only do we give you very favourable terms on these two lines but to further aid your distribution we supply beautiful Showcards, Dummy Cartons, Handbills, etc., all free upon request. We not have your share of these profitable sales?

SILKODONO BONUS TERMS for this Month.

1/6 SIZE	6 Bottles extra with orders for 3 dozen.
Wholesale Price, 12/- per dozen.	Net Profit 27/- on Outlay of 36/-
2/6 SIZE	6 Bottles extra with orders for 3 dozen.
Wholesale Price, 20/- per dozen.	Net Profit, 45/- on Outlay of 60/-
4/6 SIZE	6 Bottles extra with orders for 3 dozen.
Wholesale Price, 36/- per dozen.	Net Profit 81/- on Outlay of 108/-

SHONPONE BONUS TERMS for this Month.

Shonpone Sachet, wholesale 2/6 per dozen, to sell at 4d. each. We will supply as a trial order three dozen Sachets for 7/6, and include 6 Sachets absolutely free of charge and post paid. Dainty Cartons to hold four Sachets will be sent on request. 4d. Sachet, free of charge, sent for testing.

SILKS TOILET CO.

8-9 Red Lion Street, HOLBORN, LONDON, W.C. 1.

AND Shonpone SACHETS

for Washing the Hair

Shonpone Shampoo Sachets are creating a steadily demand which it is well worth your while to cultivate. Its delicious perfume and refreshing effect after use will give it a world-wide popularity. Dainty cartons will be sent on request. These make effective Window Displays. If you would like to test the virtues of Shonpone yourself we will give you a 4d. Sachet, FREE OF CHARGE.

Profits to You and Satisfaction to Your Customers—In Calox Sales

EVERY chemist knows that satisfied customers are the greatest assets his store could possibly have. And the chief source of profits and prosperity.

With Calox—The Oxygen Tooth Powder—he is assured of repeat sales. Because Calox users have proved the wonderful effects of Calox in cleansing, polishing and whitening the teeth.

Keep Calox in a conspicuous place on your shelves or counter, and see how the demand for this splendid dentifrice will grow.

Look over your stock, and place an order today.

Manufactured by

McKESSON & ROBBINS

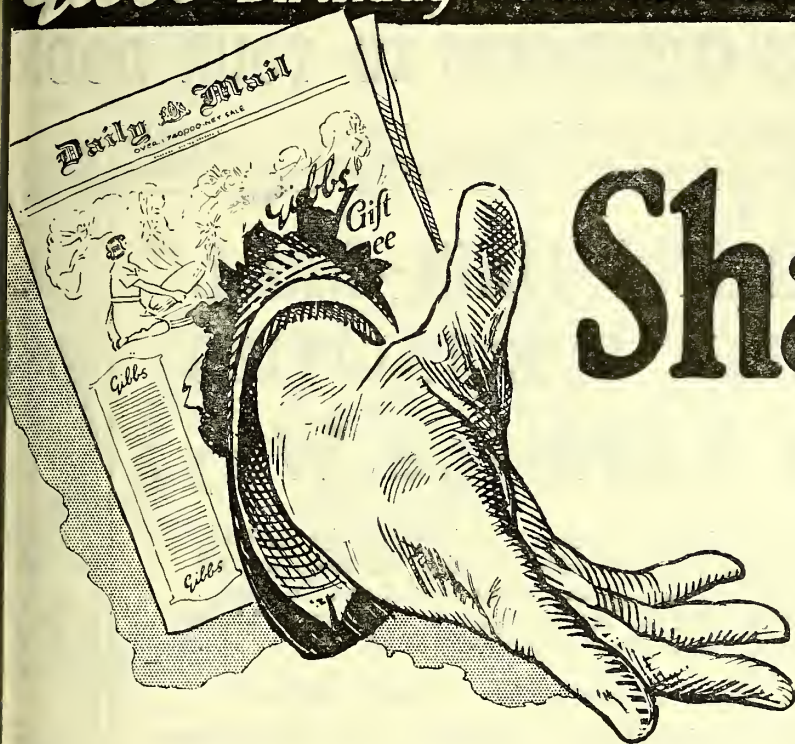
INCORPORATED

91 Fulton Street

New York, U. S. A.



Gibbs Birthday Week—A Wonderful Success



Shake!

TO those Chemists who co-operated with us in our 210th Birthday Scheme, we offer our congratulations. Without their hearty assistance we could have done little—with it we have made July a bumper month in sales of our standard lines.

In seven days over three hundred thousand week-end cases were given to the public. This means that over 300,000 sales have been made through the Pharmacies. Each week-end case contained four samples of Gibbs Preparations—thus introducing well over a million samples to the recipients and opening up thousands of chances of fresh business for you.

Also, millions of readers throughout the country have had the name of Gibbs brought vividly

before them—resulting in such a raid on the Gibbs Preparations as has never before been known.

From every quarter we are hearing of depleted stocks, and we strongly urge our friends to re-order as quickly as possible. An effort of this magnitude does not come to an abrupt finish, but its impetus will carry on for months, giving additional weight to our succeeding sales efforts.

Send that order now!

Gibbs
Dentifrice
and other
Toilet Preparations.

D. & W. GIBBS, Ltd. (Dept. S21), City Soap Works, London, E.1

It is always worth while co-operating with Gibbs

UNIQUE FREE GIFT ADVERTISING THAT BRINGS CUSTOMERS TO YOUR DOOR

"HARLENE-HAIR-DRILL" TOILET SPECIALITIES Still Lead the Way.

THE extensive and intensive advertising campaign constantly running in connection with "Harlene" continues and will continue to draw immense response from all over the country. Thousands of Free Trial Gift Parcels are dispatched to new applicants every day, thus increasing the already colossal retail business.

Do you stock the following "Quick Sellers"?

"Harlene" for the Hair	"Astine" Vanishing Cream
"Uzon" Brilliantine	"Astine" Tooth Cream
"Cremex" Shampoo Powders	"Astine" Shaving Stick
"Astol" for Grey Hair	"Astine" Nail Cream

No Chemist or Store can afford to be without this Unique Line of Toilet Preparations.

Every day "Harlene Hair Drill" becomes more popular and every day the demand for "Harlene" preparations becomes greater. Don't be behind the times and turn away good business because you have not got sufficient stocks.

PLACE YOUR ORDER TO-DAY.

"HARLENE HAIR DRILL" is **EVERYONE'S** Toilet Exercise because it requires so little time to produce beneficial results

"HARLENE HAIR DRILL" preparations should be stocked by every CHEMIST and DRUG STORE because it is **EVERYONE'S** Toilet Exercise.



Write for Particulars, Terms, etc., to—

EDWARDS' HARLENE, Limited

20, 22, 24 & 26 LAMB'S CONDUIT STREET, LONDON, W.C. 1

Let

Pears

increase your
BUSINESS

Pears' Soap, Pears' Golden Series of luxuries for the toilet, are supreme of their kind. Pears' extensive advertising brings customers to your counter and makes your selling problem an easy one.

& F. PEARS, Ltd., 71-75, NEW OXFORD STREET, LONDON, W.C. 1.



DEARBORN L^{TD}

37 Gray's Inn Road,
LONDON, W.C.1.

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP ... <small>A complexion soap.</small>	10/-	1/-
PROLACTUM ... <small>For the lips.</small>	10/-	1/-
PARSIDIUM JELLY ... <small>For wrinkles.</small>	10/-	1/-
ALLACITE OF ORANGE BLOSSOM ... <small>A dressing cream.</small>	22/6	2/6
BORANIUM ... <small>A hair tonic.</small>	22/6	2/6
CLEMINITE ... <small>For a face lotion.</small>	22/6	2/6
COLLIANDUM ... <small>For a face tint.</small>	22/6	2/6
PERGOL ... <small>A deodorant.</small>	22/6	2/6
TEKKO PASTE ... <small>Camphor cream.</small>	22/6	2/6
STALLAX ... <small>For a shampoo.</small>	22/6	2/6
JETTALINE ... <small>For clearing the skin.</small>	31/6	3/6
PHEMINOL ... <small>A depilatory.</small>	36/-	4/-
MENNALINE ... <small>For the eyelashes.</small>	36/-	4/-
MERCOLIZED WAX ... <small>A face cream.</small>	31/6	3/6
STYMOL ... <small>For oily complexions and blackheads.</small>	36/-	4/-
SILMERINE ... <small>Hair-curling fluid.</small>	22/6	2/6
BARSYDE ... <small>Dandruff eradicator.</small>	22/6	2/6
TAMMALITE ... <small>For grey and faded hair.</small>	22/6	2/6
LIQUID PERGOL ... <small>To check excessive perspiration locally.</small>	31/6	3/6
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The Products of

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CLYNOL BERRIES	36/-	4/-
<small>For obesity.</small>	58/6	6/6
SOFT PALERIUM...	45/-	5/-
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LIQUID NAIL POLISH ...	10/-	1/-
<small>Brilliant and lasting.</small>		

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THE MOST ATTRACTIVE LINES
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mint which is produced only from
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Oil of Peppermint in sealed containers
guaranteed to meet the B.P. standard.

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The Grey Hair Problem

Solved by an entirely new discovery

**The
Work of an
Eminent
Hair
Specialist**

A complete solution of the Grey Hair Problem was the task which an eminent Hair Specialist set before himself some years ago. He has **SUCCEEDED FAR BEYOND HIS OWN EXPECTATIONS** and he has embodied his discovery in a preparation called

Nuctone

Regd.

**Restores
The Colour
Gradually,
Permanently,
Safely**

This preparation has been **PUT TO THE TEST** for more than two years, every grade and texture of hair being used in the experiments and **ENTIRE SATISFACTION** has been the result in **EVERY CASE**.

NUCTONE acts in quite a different way from Hair Dyes, restoring to the cells of the hair **THE PIGMENTS WHICH NATURE HAS CEASED TO SUPPLY**, leaving the work to be completed by the action of light on the hair.

**Absolutely
Harmless**

The usual difficulties connected with the sale of Hair Dyes, such as disappointing or harmful results, are entirely eliminated in the case of **NUCTONE**, which is guaranteed not to contain any injurious ingredients such as sulphur or lead. It contains a very powerful Bactericide which debars the possibility of injury to the hair, the skin or the general system through using **NUCTONE**.

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THIS soap has been specially made for ladies to use after house work. It contains an oil never hitherto incorporated in soap which not only cleans the hands from all grime and dirt, but leaves the skin soft and white.

A boon to Cyclists, Motorists and Mechanics.

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in liquid form (2 sizes)

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They are well up to the Evan Williams' standard of production, sell freely, and give a handsome profit.

Write for “The Shampoo Salesman,” which gives full details of all our Preparations.

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The largest Shampoo Specialists in the world.

Our Advertising Still Goes On

creating new customers for the Pro-phy-lac-tic Tooth Brush in the YELLOW Box—customers ready and able to buy “the only brush that really cleans the teeth.”

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GENUINE only in the YELLOW Box

Manufactured by the
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Sold through
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In 3 sizes—adult's,
youth's, and child's;
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quality only—each
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YELLOW Box with
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**A FULL
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PROFIT**

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No.			Per doz.
103.	Black celluloid	7½ × 1½ in.	6 6
320.	White galalith	7½ × 1½ in.	7 0
101.	celluloid	8 × 1½ in.	7 6
277.	Black " burr grailed	8 × 1½ in.	9 0
284.	" galalith "	7½ × 1½ in.	9 6
118.	" vulcanite	8 × 1½ in.	10 0

No.			Per doz.
195.	Black vulcanite, stout, burr grailed	8 × 1½ in.	12 6
287.	" galalith " "	7½ × 1½ in.	18 0
288.	White " " "	7½ × 1½ in.	18 0
280.	Horn " " "	7½ × 1½ in.	18 0
234.	Mottled galalith, ex, stout, burr grailed	7½ × 1½ in.	27 6
258.	White " " "	8 × 1½ in.	30 0

LADIES' RAKE COMBS.

No.			Per doz.
262.	Black celluloid, burr grailed	7½ × 1½ in.	7 6
224.	White " "	8 × 1½ in.	8 0
196.	Black vulcanite, stout, burr grailed	8 × 1½ in.	12 6
174.	White celluloid " "	8 × 1½ in.	15 0
189.	Black " " "	8 × 1½ in.	15 0

No.			Per doz.
297.	Black galalith, stout, burr grailed	7½ × 1½ in.	18 0
298.	White " " "	7½ × 1½ in.	18 0
281.	Horn " " "	7½ × 1½ in.	18 0
233.	Mottled " extra stout, burr grailed	7½ × 1½ in.	27 6
259.	" " " "	8 × 1½ in.	30 0

SMALL TOOTH COMBS.

No.			Per doz.
250.	White galalith	3 × 1½ in.	3 0
250a.	Black " "	3 × 1½ in.	3 0
182.	" " "	3 × 1½ in.	4 6
192.	" vulcanite	3 × 1½ in.	5 0

No.			Per doz.
176.	White galalith	4 × 2 in.	6 6
177.	Blonde " "	4 × 2 in.	6 6
296.	Steel " "	3½ × 2 in.	7 0
202.	Black vulcanite	3½ × 2 in.	7 6

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12 Perfect Blades
in every
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MAY BE CONFIDENTLY
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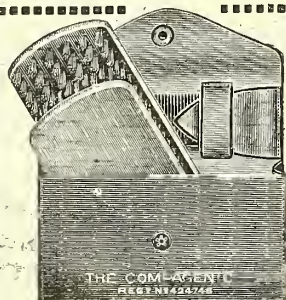
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Two Hair Brushes and Comb which only take up
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UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.



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Extra Choice,
The Pick of all
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Finest Texture
and Shape.

Pieces in Case.	Average Price per Piece.	
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250 "	" 1/-	
200 "	" 1/6	
160 "	" 2/-	
140 "	" 2/6	
120 "	" 3/-	
100 "	" 3/6	
90 Medium Bath	4/6	
80 "	" 5/6	
72 "	" 6/6	
60 "	" 7/6	
45 Large Bath	8/6	
30 "	" 10/6	

HONEYCOMB.

Toilet & Bath.
Good 2nd
Quality.

Pieces in Case.	Average Price per Piece.	
270 at	6d.	
180 "	9d.	
170 "	1/-	
160 "	1/6	
140 "	2/-	
120 "	2/6	
110 "	3/-	
90 "	3/6	
80 "	4/-	
75 "	4/6	
70 "	5/-	
65 "	5/6	
60 "	6/6	

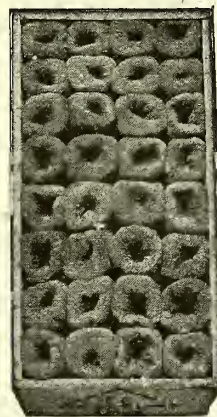
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SOLIDS.

SELECTED
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1st Quality.

Pieces in Case.	Average Price per Piece.	
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Toilet 150	" 1/6	
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" 100	" 2/-	
" 80	" 2/6	
Bath 50	" 3/-	
" 36	" 4/-	
" 24	" 5/-	



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SPONGES IN SMALL PACKAGES. Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz. : 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 8s., 12s., 15s., 18s., 24s.

NEW VELVET HONEYCOMB. Soft, Durable and large for money. Suitable for Toilet and Bath purposes.

PRICES—Cut Shapes 3s., 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s. per dozen

Natural Shapes .. 4s., 6s., 9s., 12s., 15s., 18s., 21s., 24s., 30s., 33s., 36s.

"Strongly recommended where an inexpensive Toilet and Bath Sponge is required."

The New All-British

'ABLUTONIC' RUBBER SPONGE

The "Fine Turkey" of the Rubber Sponge class. Possessing more agreeable and lasting qualities than any other Rubber Sponge.

**Special Bonus Discount of 10%
on all Orders of £3 and over.**

The "Ablutonic" Rubber Sponge is a veritable triumph of perfected manufacture, and is without a doubt the finest article of its type on the market.

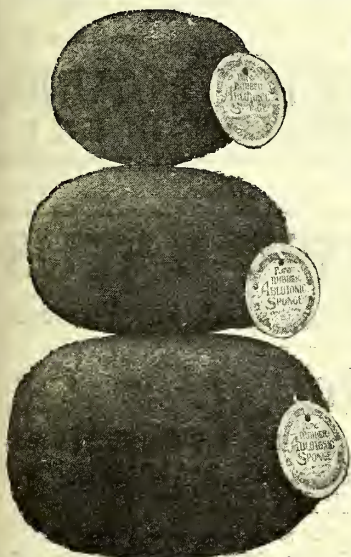
It is beautifully soft and durable, extremely absorbent, quite free from odour and improves with use.

OVAL SHAPES.

Sizes No.	0	1	2	3	4	
Price	8/-	10/6	15/-	22/-	30/-	per dozen.
Retail price	1/-	1/6	2/-	2/9	4/-	per piece.

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COLTON PASTE MIXERS

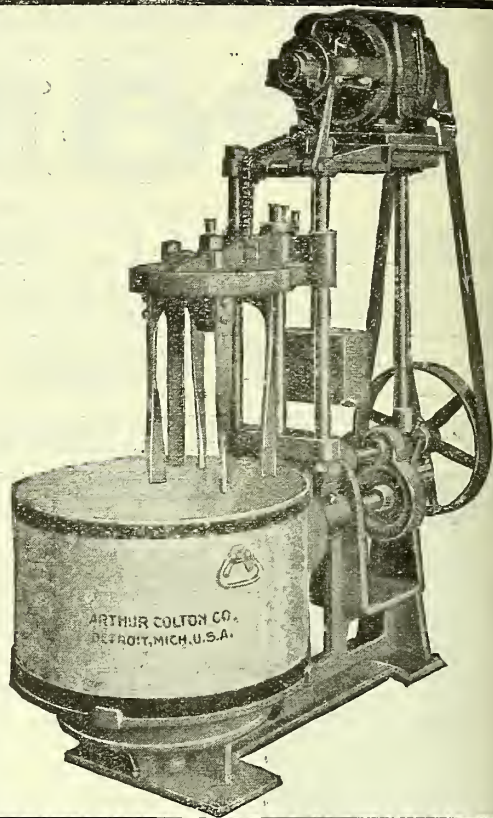
Especially adapted for the mixing of Tooth Pastes, Toilet Creams, Paints, Inks and various materials in paste form. Heavily made cast iron frame, fitted with machine-cut gears that ensure easy and silent working. The mixing blades turn in one direction while the container revolves in the opposite direction, a stationary blade preventing material from adhering to inside of the container.

Prices and specifications of various designs sent on application.

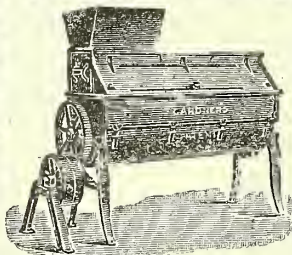
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OVER 6,000

working in almost every Trade where POWDERS are Sifted and Mixed and Lumps Reduced, all being done at one operation and without loss by dust.

FOR HAND OR POWER.

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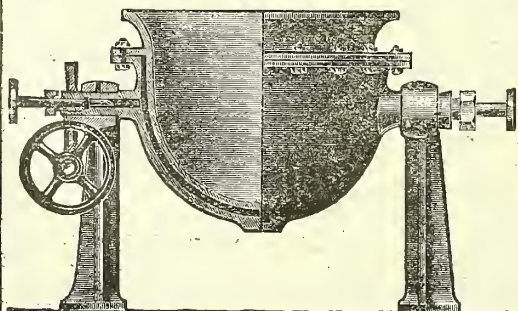
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Suppliers before the War to the largest European
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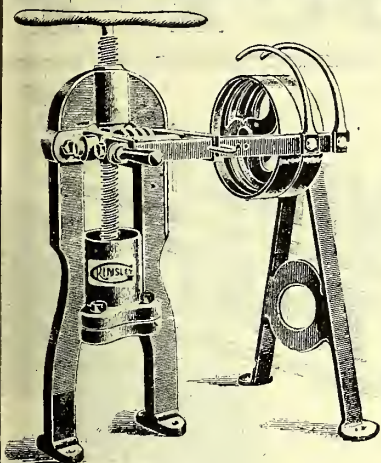
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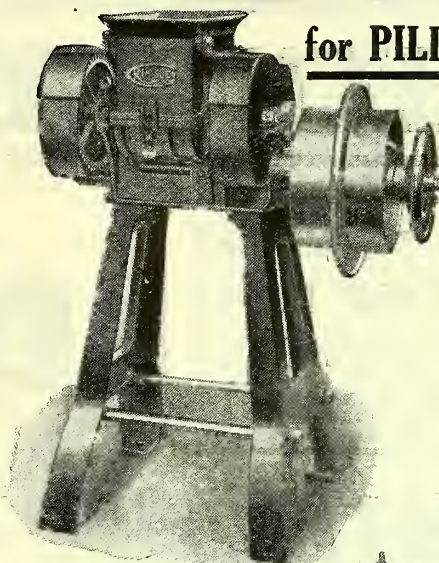
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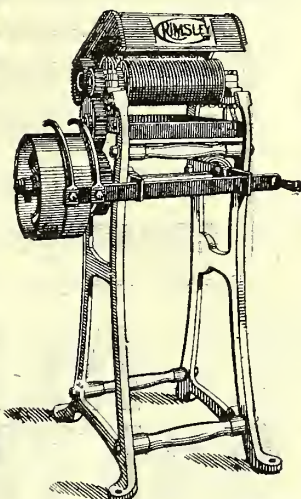
Pill Piping Press.



Pill Mass Mixing Machine for Hand or Power.

Also for Mixing, Sifting & Filtering

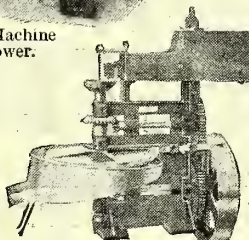
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GUARANTEED TO CARRY A COMBINED WEIGHT OF 400 lbs.

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This is our best Model, and is assembled with the finest component parts to be had on the market for strength and durability, irrespective of price. It has been designed and built to combat the abuse given it by the average messenger boy, and includes many improvements not shown on any other Carrier Cycle, i.e.—Double Front Forks, Motor Fork Crown and Front Hub, Wheels built up with Heavy Gauge Unbuckable Rims and Piano Wire Spokes. **TUBULAR CARRIER BUILT ON THE FRAME WITH SOLID STEEL LUGS.** (Independent Steering.)

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Contractors to the largest buyers of Carrier
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PEOPLE USE AND HIGHLY
RECOMMEND THESE TRULY
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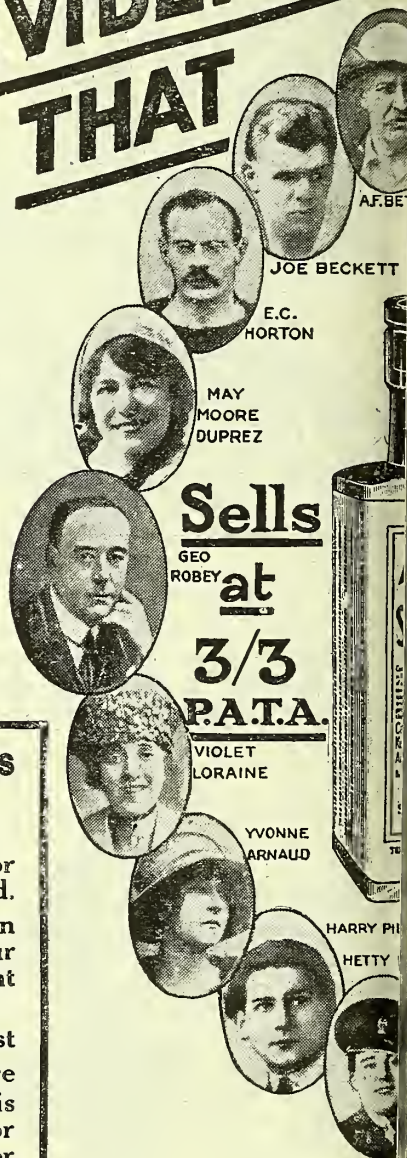
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**MUST
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**YOU, Mr. Chemist, can
Recommend these Goods with
ABSOLUTE CONFIDENCE
Every sale means a pleased
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REUDEL BATH SALTRATES

The Best Selling and most fragrant, refreshing and all-round satisfactory preparation for the Bath and for general toilet purposes. Especially recommended in cases of FOOT TROUBLES, RHEUMATIC ACHES AND PAINS, STIFFNESS, STRAINS, SPRAINS, Etc.

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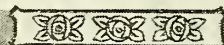
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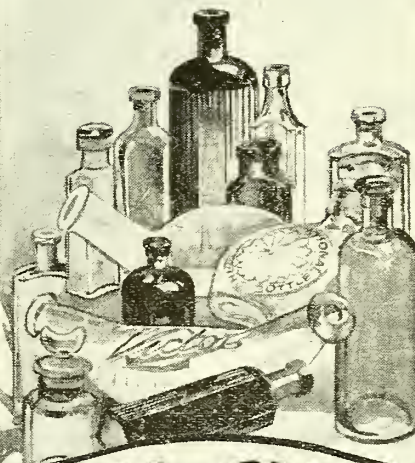
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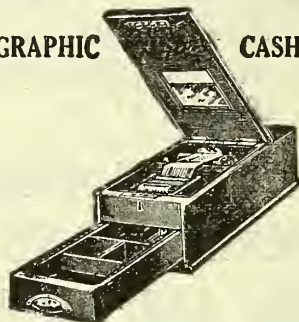
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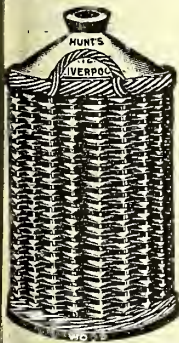
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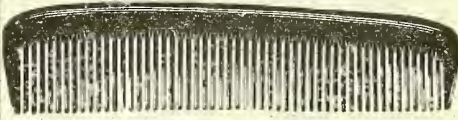
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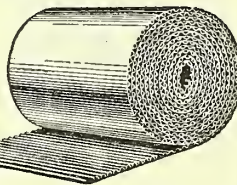
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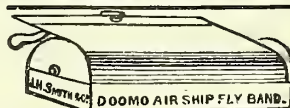
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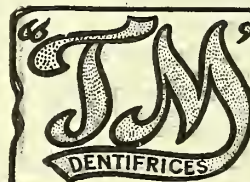
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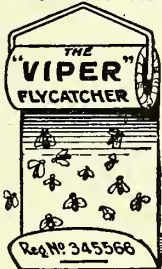
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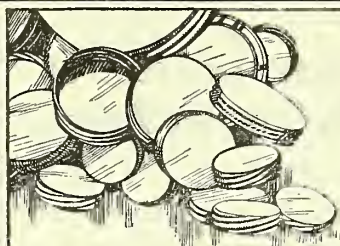
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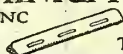


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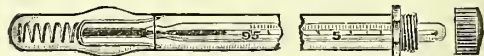
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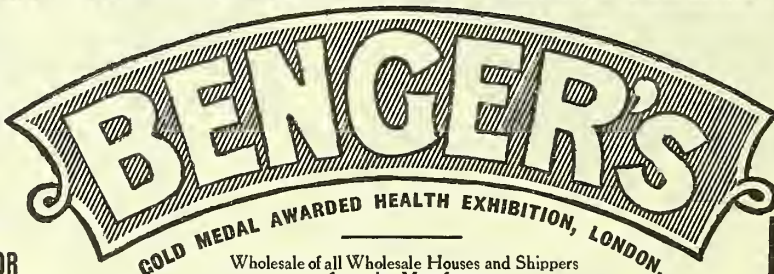
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Business Changes

MR. VINCENT ADAMS is opening a pharmacy at 10 Yarn Lane, Stockton-on-Tees.

MR. W. T. GIBSON, chemist and druggist, Norwich, has acquired the business and the premises of Mr. J. C. Palmer, Mere Street, Diss, who has retired.

MR. J. E. GOODALL, chemist and druggist, 66 Lower Richmond Road, Putney, London, S.W. 15, has opened a branch, under the management of Mr. P. N. Turner, chemist and druggist, at 383 Upper Richmond Road, Putney.

THE business of Mr. George F. H. Coates, chemist and druggist, 12 Blossom Street, Micklegate Bar, York, has been acquired by Messrs. T. Pearson Parker and Percy Watson, chemists and druggists, who will carry it on under the name of Parker and Watson.

MR. G. GADSDON, chemist and druggist, has purchased the business of Mr. G. L. Austin, chemist and druggist, 176 High Street, Hounslow, who has retired. Mr. Gadsdon was for several years with Mr. William Martindale, New Cavendish Street, London, W. 1, and subsequently managed the Brompton Road branch of Lewis & Burrows, Ltd.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Diphtheria Antitoxin and the Schick Test

A memorandum has been issued by the Ministry of Health (Stationery Office, 1d.) on (1) the supply and administration of diphtheria antitoxin, and (2) the use of the Schick test and method of active immunisation. Intended primarily for the medical profession, it contains a few passages of more general interest, the chief of which is the following:

As a means of simplifying the supply and use of the serum, it is suggested that medical officers of health should advise local authorities to obtain and stock diphtheria antitoxin only in phials which contain 8,000 units for treatment and 500 units for prophylaxis; the former should be concentrated serum containing the 8,000 units in less than 10 c.c. A curative dose can then be given in one injection with a 10-c.c. syringe. In the case of a prophylactic dose the 500 units should not be contained in less than 2 c.c.

It is indicated in another passage that it is seldom safe to rely on any dose of less than 8,000 units, whatever the age of the patient may be, and that larger initial doses—e.g., from 16,000 to 30,000 units—are specially required when the administration of antitoxin has been delayed until the third or fourth day from the onset of the attack.

Dental Board

Applications for registration have been received from the following persons on the grounds that they are pharmaceutical chemists or chemists and druggists, and that immediately before July 28, 1921, they had a substantial practice in dentistry, in the course of which they personally performed such operations and gave such treatment, advice and attendance as are usually performed and given by dentists. Any objection to registration must be lodged within one calendar month from August 15, and must be supported by evidence sufficient to show a *prima facie* case against registration:—

Anderson, John Addison Sufferin, High Street, Killyleigh, Co. Down.

Barker, William Edward, The Pharmacy, Burnham, Bucks. Bloomfield, Frank Harding, The Central Pharmacy, King's Norton, Birmingham.

Byth, John, 323, King Street, Aberdeen.

Daykin, George Shaw, Market Place, Bolsover.

Hacking, Charles Harold, 210, Eskrick Street, Bolton.

Hill, Samuel, 103, York Street, Belfast.

Kershaw, Arthur Norman, 5, South Street, Keighley, Yorks.

McDermott, Albert Leo, Medical Hall, Shercock.

Poxon, Alfred, High Street, Brownhills, near Walsall.

Shirra, Alexander Wilson, 40, Powis Terrace, Aberdeen.

Smith, John Clayton, 77, Ashbourne Road, Derby.

Wallwork, Cecil Shorroch, 94, Elliot Street, Tyldesley.

Wharton, John Francis, 97, New Square, Chesterfield.

Wood, Uriah, 159, Front Street, Arnold, Notts.

Birmingham

Local lady dispensers did not fare well at the recent Apothecaries' Hall Assistants' Examination.

Effective hand-bills are being used by Mr. T. H. Foden, Ph.C., King's Heath, to advertise his photographic stock and service.—To revive interest in the Old Derby Photographic Society, the subscription has been fixed at 5s., and during the present session there is to be no entrance-fee.

It was contended by one defendant, in the Insurance dispensing cases heard on August 18 (see p. 307), that as the name on the prescription was not that of a panel patient the summons was technically bad. The point was overruled by the Bench. The analyst for the defence made an "exhibit" of 80 gr. of both heavy and light carbonate of magnesium, which were viewed with interest by the magistrates.

Liverpool

Many Liverpool people are saving a day or more to witness the Preston Guild celebrations (September 3 to 9), which have been held at regular intervals since 1328.

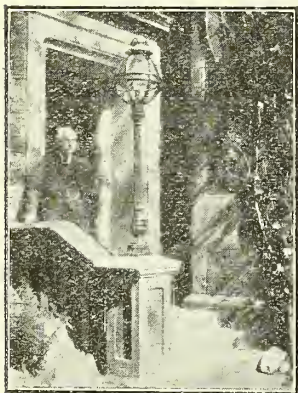
The Liverpool Pharmacists' Club will, on August 27, inaugurate a rambling section, meeting on the landing-stage for the 2.15 p.m. boat to New Brighton. The walk will be across the sea end of the Wirral peninsula to Hoylake, where a visit may be made to Hilbre Island, returning by train.

Mr. John H. Robinson, who has been suffering from a temporary indisposition, is displaying an artistic window-arrangement of "Meritor" brushware.—In the window of W. Burgess, Ltd., Whitechapel, is a child's bucket and spade and this text: "You may not want a bucket and spade on your holiday, but let us supply you with the following requisites." Two lists are given.

A note appeared in this section of our last week's issue imputing dullness to the perfume trade. Another Liverpool pharmacist is of a different opinion. The perfumery trade, he says, is nothing like so dull as it might be. To sell perfumes, one must have some enthusiasm and adapt one's business to the times. The public, he continues, keep asking for "little and good"; they are bored stiff with rubbish. One-ounce and two-ounce bottles of eau de Cologne are good sellers, but one must show them; lavender water is coming into fashion again, and a good quality is asked for.

A correspondent writes: "During the time I was an apprentice at West Hampstead I had to call on different people to ask for payment for their small accounts; this was my sole recreation. Among the customers were numbered Mr. and Mrs. Alfred Harmsworth, and I had to call on them on two or three occasions. I put the envelope in the servant's hand, and said I would wait for an answer, and in reply was asked inside, where I met one of the nicest couples it has ever been my lot to interview. A cheque was promptly made out by Mrs. Harmsworth (now Lady Northcliffe)—a pleasant little conversation, and I took my departure."

Mr. W. Ford Patridge, 97 Admiral Street, Princes Park, recognised on a tramcar recently Mr. Henry Peet, M.A., and introduced himself by a reference to the Liverpool Cathedral service which preceded the 1920 British Pharmaceutical Conference. On comparing notes, it was found that Mr. Patridge and Mr. Peet were both born within eight miles of each other in Lincolnshire, both have been in business in Liverpool for forty years, and each has inherited a holding in his native county. Mr. Patridge's son (Mr. Ernest W. Patridge, 345 Aigburth Road) had made Mr. Peet's acquaintance some years ago when Mr. Peet sought a *locum tenens*.



MR. H. PEET, M.A., F.S.A.

Sheffield

Nearly all the leading Sheffield chemists are on holiday.

Building operations have commenced on the new premises for Carter & Sons, manufacturing chemists.

Pharmacy is still unrepresented on the commission of peace for the city, and the fact is brought home to us by the issue of a fresh list of justices.

The programme for the next session of the Sheffield Pharmaceutical and Chemical Society is practically completed. Mr. Hammond has endeavoured to arrange subjects of interest to everyone.

Suburban chemists are severely handicapped by the railway boundaries for the free delivery of goods being totally out of date. In some cases the cartage amounts to more than double the carriage.

Miscellaneous

LONDON CHEMISTS' GOLFING SOCIETY.—A meeting was held over the course of the Edgware Golf Club on August 17. The competition was for the Hill cup, which was won by Mr. D. J. Parry; the sweep was taken by Mr. Epps.

MONEY ORDERS FOR GERMANY.—The Postmaster-General announces that the German Post Office has temporarily suspended the money order service with the United Kingdom in both directions. The British Post Office consequently cannot, until further notice, accept money orders for transmission to any place in Germany, or to Danzig or the Memel territory.

DRUG-TRAFFIC CASES.—At Marlborough Street Police Court, London, on August 19, two Chinamen, described respectively as a buyer and a merchant, were each sentenced to six months' hard labour for being in unauthorised possession of cocaine and opium.—At London Sessions, on August 22, Giacomo Bracco, a cook, was similarly sentenced in respect of six "packets" of cocaine.

LAPSED PATENT RESTORED.—"The London Gazette," August 15, announces the restoration of letters patent No. 2918 of 1909, granted to Louis Haas, for an invention entitled "Derivates of carbazol and dyestuffs formed therefrom," and that of letters patent No. 9689 of 1909, granted to Robert Bolton Ransford, for an invention similarly entitled, and communicated to him by Leopold Cassella & Co. (Gesellschaft mit beschränkter Haftung).

INQUEST.—During an inquest at Hammersmith, on August 22, on the body of a young man who died in St. George's Hospital following treatment for venereal disease, a medical witness stated that death was due to acute atrophy of the liver following the disease, and arsenical poisoning. The witness thought that the proportion of fatal cases was about six in 10,000. The coroner recorded a verdict of "Death by misadventure."

DENTISTRY AS AN INSURANCE BENEFIT.—The organising secretary of the International Dental Exhibition, which opens in London on August 28 (see "Coming Events"), has issued a statement to the Press comprising the following passage: "The Minister of Health has sanctioned the giving of dental benefit by the approved societies for a period of five years, at the end of which the position will be reviewed. It is our hope that the Minister of Health will then see his way to include dental benefit as one of the standard benefits under the Health Insurance Act. About 80 per cent. of the dentists of this country are willing to give dental treatment to members of approved societies under a scheduled scale of fees which has been agreed upon."

Irish News

Brevities

Mr. Wm. John Jones, Ph.C., The Quay, Waterford, has lodged a claim for £54 compensation for the seizure of goods in July during the occupation of Waterford by the Irregulars.

Mr. W. A. Murphy, Ph.C., Pettigo, Co. Donegal, who was kidnapped when the Republicans were driven from Pettigo, a border town, and detained (*C. & D.*, June 17, p. 39), was released on August 19.

The Belfast Police Committee has refused permission to an east end chemist to display an advertising flag at his pharmacy, on the ground that flags are not permitted projecting across the public footway.

Londonderry

Photographic chemists report a boom in photography during the August holidays.

Councillor McCully, J.P. (Thos. McCully & Co., Ltd., chemists), has been re-elected vice-chairman of the management committee of Londonderry District Lunatic Asylum.

Mr. D. M. Honeyman, R.D., D.C.O., 34 Baden Powell Street, has satisfied the requirements of the Board of Examiners of the National Association of Opticians, and has been awarded the fellowship diploma.

Scottish News

Brevities

Mr. H. W. Thomas, chemist and druggist, has taken over the premises at 422 Argyle Street, Glasgow, formerly known as the Western Medical Hall.

The Sale of Tea (Net Weight) Act, which comes into force on September 1, stipulates that tea shall not be sold by retail otherwise than by net weight. Penalties up to £100 are enforceable for breaches of the Act.

A correspondent who has been engaged in *locum* work of late writes: "I find medical practitioners in many parts of the country are reluctant to sign their names in full on scripts coming within the Dangerous Drugs Act Regulations."

Sale of Food and Drugs Acts

The administration of the Sale of Food and Drugs Acts in Scotland for the year ended September 30, 1921, is dealt with in a report recently issued by the Scottish Board of Health. It is stated that 118 samples of cream of tartar were analysed during this period, six of which were reported against, including two "of doubtful purity." Only seventy-three samples of other drugs were taken, "a figure which reveals very insufficient sampling." The articles not up to standard were sweet spirit of nitre (1), tincture of rhubarb (1), and cream of tartar substitute (3). The Board's attention was drawn to the varying proportions of cod-liver oil in mixtures or in emulsions containing that article. One analysis of a sample of malt extract and cod-liver oil showed the percentage of oil present to be 2.82. In view of the variation between the British Pharmaceutical Codex formula and the sample referred to, and having in view the provisions of the Sale of Food and Drugs Acts, the Board communicated with the General Medical Council, giving their opinion that, if possible, uniform standards should be fixed. In reply the Board were informed that the question of the inclusion in the British Pharmacopoeia of an emulsion of cod-liver oil and of an extract of malt and cod-liver oil would be considered during the preparation of a new Pharmacopoeia, or earlier should an addendum to the Pharmacopoeia be necessary. Some observations by Dr. J. F. Techer, Ph.C., analyst for Aberdeenshire, are quoted in reference to egg powder. Analyses "show that the powders contain none of the constituents of eggs, and that therefore the title 'Egg Powder' is a misnomer. It is well that the public should know the composition of such 'egg powders,' so that purchasers may not be misled into thinking that the powder is in any sense an article of food. The statement that 'egg powder is the only real substitute for eggs' is not warranted from the results of analysis, although the 'egg powder' may possibly be quite useful as a raising agent, or for other purposes in cooking."

Edinburgh

The retail price of "hypo" is being cut, in some instances, as low as 4d. per lb.

The death occurred, on August 18, of Mr. W. B. Alexander, L.F.P.S., brother of Mr. H. D. Alexander, chemist and druggist, Lauriston Place, aged seventy-eight.

Dr. James Harvey, Blenheim Place, who was recently appointed medical officer to H.M. Prisons in Edinburgh, is retiring from private practice. Dr. Harvey was at one time with the late Mr. David McLaren, chemist and druggist.

Fife

Mr. A. G. Pittilo, chemist and druggist, has acquired the business of the late Mr. John Peebles, J.P., chemist and druggist, 70A High Street, Kirkcaldy.

In a recent competition of the Fifeshire Angling Club, on Loch Leven, Mr. J. B. McLaren, chemist and druggist, Kirkcaldy, gained the third place with seventeen trout, 13 lb. 10 oz.

French News

(From the "C. & D." Paris Correspondent.)

VETERINARY DEGREE.—The Ministers of Agriculture and Public Instruction have presented to the President of the Republic a draft law authorising the National Veterinary Schools to confer the diploma of "Doctor."

A CASE RECENTLY DECIDED by the Algiers Court of Appeal was brought by the Oran Pharmacists' Association against M. Bittard, a local "droguiste" (dealer in drugs, unqualified), who was prosecuted for the illegal practice of pharmacy and the unauthorised sale of poisons. Extenuating circumstances were successfully pleaded, and a fine of only 500 fr. was imposed.

M. EMILE ANDRÉ, head pharmacist of the Beaujon Hospital, Paris, has been investigating the active principles of cod-liver oil. He found small quantities of myristic, stearic and palmitic acids, and certain non-saturated solid acids. The liquid acids include asellic, jecolic, jecoric, gadoleic and others.

THE COMING CENTENARY of Pasteur's birth will be celebrated in many French towns. At Strasbourg, where the University is in which he made his first discoveries, a monument to his memory will be unveiled on the Place de l'Université, and an exhibition will be held. Part of this will consist of documents, etc., lent by the various Pasteur institutes, and it is hoped that a permanent collection will be formed.

THE INSTITUTE OF APPLIED CHEMISTRY in the Rue Pierre Curie opens in October. Students will undergo a three years' curriculum, the first year being devoted to inorganic chemistry, the second to organic, and the third to analysis and electro-chemistry, in addition to the two studies already named. The final examination, if successfully passed, assures a diploma as "ingénieur-chimiste." Students, who must be over eighteen years of age, will first pass an entrance examination in mathematics, elementary algebra, geometry, chemistry and physical science. The managing committee consists of six professors, the President being M. Molliard, Dean of the Faculty of Sciences. The fees are 200 fr. per "trimestre" (quarter).

THE NATIONAL OFFICE OF RAW MATERIALS for the drug trade, distillery and perfumery industries, which was commented on in the *C. & D.*, 1920, I., p. 536, is now in working order. A subsidy of 50,000 fr. a year has so far been granted by the Government, the other three-fourths of the revenue of the "Office" being furnished by the annual subscriptions of members. A certain amount is spent annually in propaganda work and in subsidising lecturers, cultivators who are engaged in experimental planting, scientists carrying out research work, etc. Other sums are spent in scientific "missions" to distant countries. The cultivation oforris root in Italy and of valerian in Belgium or Germany is being studied with a view to developing the industry within French frontiers. The Office claims it has already justified its existence. Medicinal plant exports now figure in millions of francs. Algerian exports alone have a value of nearly 1,000,000 fr.

THE "FRIENDLY ASSOCIATION OF PHARMACY STUDENTS" organised their first outing recently. Headed by Professor Perrot and Professor Delépine, sixty students took train to Vichy. After visiting the thermal establishment and its various industrial branches, they motored to Chatel Guyon, Royat, La Bourboule, Mont Doré, Saint Nectaire and Rantague (a small new spa). At each place Professor Delépine gave a lecture on the nature and properties of the springs, and some semi-formal receptions and long mountain rides agreeably diversified the scientific side of the excursion. Half a dozen other professors of the Faculty of Pharmacy accompanied the students as far as Vichy, by invitation of the Compagnie Fermière, which exploits these springs. At Chatel Guyon the douches and apparatus were explained, and the visitors sampled the various drinking waters. The medical staff at La Bourboule officially received the visitors. Here, in the inhalation hall, the metallic basins rotating at 4,200 revolutions per minute give an extremely minute spray.

American Notes

By "THE MAN FROM LONDON"

CHLOROFORM FOR THE ARMY, during the war, was put up in tin containers, which it is claimed causes decomposition, and much of the surplus stock has been found below U.S.P. standards. Seizures of some of this have been made by the Bureau of Chemistry in fifteen states, in an effort to stop the sale of the decomposed article for medical purposes.

POTASSIUM CITRATE has been considered as an alkaloidal precipitant by W. G. Topliss, who claims that this salt will precipitate the alkaloids of nux vomica, cinchona, belladonna, and other alkaloidal drugs. Quinine seems to be the most responsive, it being found by experiment that 5 per cent. quinine solution was precipitated in exact amount of potass citrate.

PARTURIUNT MONTES.—Sections of the Tariff Bill were under discussion the other day before the United States Senate, the proposed duty on calomel being the specific subject. A Senator said that there could be no argument on one point, that being that druggists charged excessive prices, and if the tariff were lowered the druggists would charge the same old price any way.

AT A RECENT MEETING of the Illinois Pharmaceutical Association a special business programme developed interesting discussions. Some of the questions were: Do you manufacture your own household preparations? What success have you had? What is your best advertising medium? What effort do you make to stimulate prescription business? Do you sell radio supplies? Do you pay your clerks a commission or bonus in addition to a salary?

SOME INTERESTING OBSERVATIONS on the sanitary condition of confections appeared recently in the "American Journal of Public Health." Thirty samples from the average candy-stores were examined for the numbers and types of bacteria. The results seem to show that the bacterial content of candies depend more upon the presence of certain constituents than on the methods by which they are prepared. The authors conclude that candy is no more of a potential danger in the spread of disease bacteria than other foods.

THE NEW YORK STATE Pharmaceutical Association, at a recent meeting, were in favour of laws which would require pharmacies to be owned by pharmacists, and limit the quantity of alcohol obtainable for any store to five wine gallons per month. New stores should not be permitted to dispense whiskey or other spirituous liquors during the first twelve months of their existence, this last clause being an effort to stop bogus drug-stores being opened for the sale of whiskey, as many have been lately.

LOSSES FROM LARKSPUR POISONING.—The recorded losses from larkspur poisoning have been almost entirely in the cattle ranges of the Western States and Canada. A conservative estimate based on reports from a large number of ranges indicates that the annual loss is from 3 to 5 per cent. These losses have been investigated by the United States Department of Agriculture, and definite evidence that the larkspur was the cause of the losses proved conclusively. Horses and sheep are said not to be injured by grazing on larkspur areas.

PHARMACISTS ARE WAKING UP to the fact that they need to enter politics for self-defence. At the recent annual meeting of the California State Pharmaceutical Association it was reported that the retail druggists of every county in that great state had been organised, and from now on their influence will be felt with the voters. There seems to be a little of the "spiritus getus togetherus" permeating pharmacy here in these days; whether it will amount to much time will show. There is a remarkable lack of organisation and co-operation among American pharmacists considering the enormous amount of business done and the importance of the calling.

THE VALUE OF THE WASSERMANN TEST is being closely investigated. Albert Strickler (Jour. A.M.A.) admits that the reaction is not a specific test. It is becoming

more and more suggestive that a particular drug, and some of the acute infectious processes, in addition to certain metabolic disturbances can at times produce a change in the serum which will cause a positive reaction. A negative Wassermann test in the presence of definite syphilitic lesions is a possibility in a certain stage of the disease. While a strong positive reaction in a subject who is not ill should cause investigation, nevertheless too great stress is not to be put upon it, unless this finding is confirmed by reliable laboratories.

A SMALLER UNITED STATES PHARMACOPOEIA.—Mr. A. R. Bliss, jun. ("Journal of the American Pharmaceutical Association") says the medical profession to-day finds the United States Pharmacopoeia is too large, and that an intelligent eliminative process would result in a Tenth Revision more suitable for use by the medical man. The author advocates the elimination of crude drugs such as aloes, red cinchona, cubeb and aspidium, nux vomica, opium, physostigma, pilcearpus, stramonium, strophanthus and others, including their tinctures and fluid extracts. He concludes by mentioning the unfortunate tendency to include in the National Formulary most of those drugs and preparations discarded or rejected by the U.S.P., which, he said, will make the "N.F." the "dumping ground" of the U.S.P.

THE FINENESS AND BULK OF PIGMENTS.—The "American Journal of Pharmacy" has an abstract concerning the study of fine powders recently. It has been found that the presence in a pigment of an appreciable amount of coarse particles will retard very much the speed of the production of a paint and increase materially the cost of grinding. It is also evident that in the case of remedies such as calomel and bismuth subnitrate the fineness of the powder will have considerable importance. The method used for determining the percentage of coarse particles in a given powder is to sieve the mass with a screen of 325 mesh upon which 25 gm. of the sample are placed. The mass is washed in a stream, while the lumps are broken up with a soft brush. When all materials have passed the residue is dried and weighed.

DR. H. V. ARNY, who was recently awarded the Remington Honor Medal, has been identified with pharmaceutical education and research work for more than twenty-five years. In 1912 he was elected professor of chemistry in the College of Pharmacy of Columbia University, and has been chemist for the State Board of Pharmacy of New York for several years. In his address of acceptance Dr. Arny said: "Pharmacy is a calling in which service to humanity must be the prime consideration. Of course, we all have to make a living, to acquire a competence, but the gulf that divides the worthy from the unworthy is after all a question of service. Pharmacists should give financial aid to projects for the betterment of pharmacy, do more research work, and give better support to the scientific and professional work of the American Pharmaceutical Association."

WHAT THE PUBLIC NEEDS more than anything else these days is more fact and less opinion. There has been altogether too much advice and opinion during the past few years, and far too little of the unglided truth. People are now looking for the truth, and any business man who gives it to them in recognisable form is going to increase his prestige and goodwill. In connection with the conspiracy and graft in Illinois, H. C. Christensen, in the "American Druggist," says regarding irregularities in the conduct of State examinations for licensing of pharmacists, physicians, dentists, and "other practitioners": "To the credit of pharmacy and pharmacists, the pharmacy examiners themselves in this State are not accused of being responsible for, or of knowingly aiding in, the disgraceful proceedings. The pharmacy examinations, it now develops, had but a minor part in the plot. "It is reported that two osteopath practitioners, a man and a woman, paid \$1,100 and \$2,500 respectively for the privilege of taking the examination, which, of course, they passed.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

SPELLOW DRUG STORES, LTD. (P.C.).—Capital, £2,000. Objects: To take over the business of a chemist and druggist carried on at 16 County Road, Walton, Liverpool, as H. H. Marsden. The first directors are: Mrs. I. Marsden, 195 Walton Lane, Liverpool (governing director); and John H. Andrews, 40 Barlow Lane, Kirkdale, Liverpool, chemist. R.O.: 16 County Road, Walton, Liverpool.

GENERAL CELLULOID CO., LTD. (P.C.).—Capital, £4,000. Objects: To adopt an agreement with Industria, Ltd., and to carry on the business of manufacturers and producers of celluloid and allied materials, and articles made therefrom, etc. The first directors are: T. C. Eckenstein, 16 Hallam Street, Portland Place, W.; H. V. Combs, 97 Old Street, E.C. 1. R.O.: 190 Hanworth Road, Hounslow.

KAY POOLE, LTD. (P.C.).—Capital, £12,000.—Objects: To carry on the business of tropical planters, market gardeners and fruit growers, essential oil distillers, etc. The first directors are: A. A. J. Poole, 17 Castle Yard, Windsor Castle, planter; L. Duckworth, Ribby Hall, Kirkan, manufacturing chemist; N. J. Craven, 15 Winckley Street, Preston, solicitor; A. C. Stirling, Strawberry Cottage, Carlshilton, merchant. Secretary: C. Reith. R.O.: 17 Fenchurch Street, E.C. 3.

WALLOM'S CASH CHEMISTS, LTD. (P.C.).—Capital, £250. Objects: To take over the business of chemists and druggists carried on at 91 Whitehorse Road, Croydon. The subscribers (each with one share) are: F. T. Pomeroy, 5 The Exchange, London Road, Thornton Heath, chemist; F. W. J. Wallom, 91 Whitehorse Road, Croydon, dealer in drugs and sundries. The permanent directors are: F. W. J. Wallom (chairman and managing director) and Grace F. Wallom. Secretary: F. W. J. Wallom. R.O.: 89 Whitehorse Road, Croydon.

S. R. VAN DUZER & SON, LTD. (P.C.).—Capital, £1,000. Objects: To take over the business of wholesale chemists and druggists carried on by S. R. Van Duzer & Son at 114 and 116 Southampton Row, W.C., and to adopt an agreement with H. S. Van Duzer and F. C. Van Duzer. The first directors are: H. S. Van Duzer, 30 East 55th Street, New York; F. C. Van Duzer, 43 Stanhope Gardens, S.W. 7 (chairman and managing director); S. R. Van Duzer, 21 Gilston Road, S.W. 10; F. C. Van Duzer, jun., 58 Palace Court, W. 2. Secretary (*pro tem*): A. Ditten. R.O.: 114 and 116 Southampton Row, W.C.

DR. KYNASTON'S METHOD, LTD. (P.C.).—Capital, £5,000. Objects: To acquire the undertaking of the "Kynaston Institute," together with the recipes and information as to processes of manufacture, and the right to manufacture and deal in medicinal preparations, appliances and treatments manufactured and dealt in by the said Institute, and to adopt an agreement with Lieut.-Colonel J. W. Kynaston and H. W. Bell. The first directors are: Lieut.-Colonel J. W. Kynaston, 26 Welbeck Street, W.; H. W. Bell, 56A Nevern Square, S.W. 5; Captain F. A. Hall, 17A Clanricarde Gardens, W. (managing director). R.O.: 83 Pall Mall, S.W. 1.

HIRST DRONFIELD, LTD. (P.C.).—Capital, £500. Objects: To carry on the business of soap manufacturers, pharmaceutical, manufacturing and general chemists and druggists, manufacturers of and dealers in toilet requisites, metal and other polishes and boxes and cases of card, wood, metal or otherwise, printers, publishers, stationers, candle makers, manufacturers of perfumes, collectors of flowers and perfume producing vegetation, etc. The subscribers (each with one share) are: D. N. Forbes, 33 Old Broad Street, E.C. 2, secretary; C. E. Mayes, 33 Old Broad Street, E.C. 2, clerk. Solicitor: A. E. Burton, 10 Norfolk Street, Strand, W.C.

SUPROFOAM, LTD. (P.C.).—Capital, £2,250. Objects: To adopt an agreement with F. Jordan for the acquisition of certain formulas, secret processes, pending contracts, trade marks and rights, and to carry on the business of manufacturers of and dealers in household commodities, toilet and medical requisites, cleansers and disinfectants, oil and colourmen, manufacturers and exporters of and dealers in wood, stone and metal preservatives, floor, furniture, boot, metal and other polishes, etc. The subscribers (each with one share) are: F. Jordan, 106 High Street, Clapham, S.W. 4, engineer; G. H. Jones, 62 Walm Lane, Willesden Green, N.W. 2, secretary. Solicitors: S. A. Clench & Co., 5 Crown Court, Cheapside, E.C.

JOHN OAKLEY & SONS, LTD., have declared an interim dividend on the ordinary shares for the half-year ended June 30 last at $2\frac{1}{2}$ per cent., less tax.

W. J. BUSH & CO., LTD.—The accounts for the year 1921 show a trading loss of £87,456, which compares with a net profit in the preceding year of £44,210, and £96,829 in 1919. Thanks to the surplus of £63,621 brought in, the adverse balance is reduced to £23,835. This, however, is increased to £30,085 by the payment of the preference dividend, which, in view of the substantial reserve shown in the balance-sheet, the directors see no reason to defer. The debit balance of £30,085 is carried forward pending the settlement of a claim for the refund of a large sum in respect of E.P.D. and a reduction in the income-tax assessment.

JOHN BELL & CROYDEN, LTD.—The first annual general meeting was held on August 18 at the company's premises, 52 Wignore Street, W. 1, Sir Sidney R. Alexander, M.D., J.P. (chairman) presiding. In moving the adoption of the report and balance-sheet and the confirmation of the recommendation of the payment of a dividend of 10 per cent. on the preference shares and 6d. per share on the ordinary 1s. shares, leaving the sum of £21,000 to be carried forward to next year's accounts, the Chairman said they were assembled in their new premises, which they hoped shortly to open as showrooms for a surgical instrument branch. They were aware that since the incorporation of the company they had acquired the business of Arnold & Sons, the well-known manufacturers of hospital furniture surgical and veterinary instruments, etc. This acquisition considerably enlarged the scope of their activities. He was entitled to say, in spite of the general depression in industrial circles, in spite of the restricted spending power of the people, that the business of the company had been well maintained, a fact upon which they congratulated themselves. By the amalgamation of the three businesses they were in possession of a number of factories situate in various districts. The directors have decided upon a plan of concentration which will ensure the saving of a considerable sum in overhead charges, and in addition make for higher efficiency. It is estimated that this saving in overhead charges will amount to approximately £10,000 per annum. They looked forward with confidence to the future, as the gentlemen on the board and in the management were heart and soul with the business and their interests were identical with those of the shareholders. (Applause.) Mr. John D. Marshall (vice-chairman), who has been connected with the business for many years, seconded the resolution, which was supported by Mr. C. A. P. Langham, joint managing director, who said they were possessed of a business which is absolutely solid and sound, one that is not subject to fluctuations of either season or fashion. They were determined to place at the disposal of the medical profession and their customers a service unexampled in its efficiency. (Hear, hear.) The motion was carried unanimously with applause. The Chairman moved, and Mr. Marshall seconded, a vote of thanks to the general manager (Mr. Arthur Langham) and the company's staff, expressing the directors' keen appreciation for loyal service rendered.

Dangerous Drugs Act

THE Ministry of Health has issued a circular (No. 330), headed "Dangerous Drugs Act, 1922," setting forth that, in consequence of representations that the effect of the Order dated August 15, 1921 made by the Secretary of State in pursuance of the Regulations under Section 7 of the "Dangerous Drugs Act, 1921," is not fully understood by medical officers and dispensers attached to poor-law establishments, the Minister of Health has caused an explanatory memorandum to be prepared. The circular is addressed to the clerk to each poor-law authority, and a copy is to be transmitted by him to each institutional medical officer and dispenser employed by the authority. The text of the circular is as follows:

„ DANGEROUS DRUGS ACT, 1920.

Regulations of the Secretary of State.

MEMORANDUM AS TO 'PROCEDURE IN POOR-LAW INSTITUTIONS' (INCLUDING SEPARATE INFIRMARIES).

I. Regulations made under the Dangerous Drugs Act, 1920; apply to the use of cocaine, morphine [,] diamorphine (heroin), medicinal opium, and the salts and preparations of the three former substances, but the following preparations and prescriptions for those preparations are exempted from the restrictions prescribed by the Regulations:—

(a) [Schedule II. to the Regulations made under Section 7 of the Act (given in THE CHEMIST AND DRUGGIST, I., 1921, p. 739) is reprinted, with a few printers' errors.]

(b) Any preparation containing less than one-fifth per cent. of morphine or one-tenth per cent. of cocaine or heroin. Thus any mixture containing in each drachm not more than 10 minims of tr. opii, or 10 minims of liquor morphinae would be unaffected by any of the provisions of the Regulations.

II. The medical officer is required to sign all orders for the supply of the drugs affected by the Regulations to the institution, and these supplies are to be received by him and kept in his charge.

III. The medical officer is required to write, date, and sign or initial all prescriptions for the supply of drugs affected by the Regulations, and to state on the prescription the name or case number of the patient for whom the drug is to be supplied. The prescription may be written on the patient's record-paper or bed-card. All such prescriptions are to be kept for at least two years, and a fresh prescription is to be made on each occasion on which a fresh supply is required for any patient. If conventional names are ordinarily in use for particular preparations of the drugs affected by the Regulations at an institution they may be used in prescribing.

IV. Supplies of stock preparations of dangerous drugs required to be kept in a ward are only to be issued by the medical officer on a written requisition of the nurse in charge of the ward. The medical officer will retain the requisition for reference and record for a period of at least two years. The nurse in charge of the ward is required to keep a copy of each requisition, to keep the drugs so supplied under lock and key, and to use them only under the directions of the medical officer.

V. The medical officer is required to take all necessary precautions to ensure the safe delivery of the drugs affected by the Regulations to the ward in which they are required.

VI. Where there is an outpatient department, the two preceding requirements are to apply to the department in the same way as they do to a ward.

VII. The medical officer is required at the time of dispensing a prescription or requisition for the supply of a drug affected by the Regulations to mark or stamp the prescription or requisition so as to show that it has been dispensed.

VIII. The medical officer is required to keep, separately for each drug affected by the Regulations, the following records:—

(a) A record showing as regards all supplies to the Institution the following particulars:—

Date on which supply is received	Name of person, body or firm from whom obtained	Address of person, etc., from whom obtained	Amount obtained	Form in which obtained
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(b) a record of each occasion on which a prescription or requisition was dispensed, and, in the case of a prescription the date, the name of the prescribing doctor and name or case number of patient, and in the case of a requisition the date, the name of the nurse making the requisition and the name or description of the ward for which the requisition is made.

IX. Where the staff of a poor-law institution includes a dispenser whose appointment as such has been approved by the Minister of Health, the duties imposed by the Regulations on the medical officer so far as the dispensing and recording of prescriptions and requisitions and the safe custody of drugs affected by the Regulations are concerned are to be performed by the dispenser. If the dispenser is a fully qualified pharmacist orders for the supply of the drugs affected by the Regulations may be signed by him in place of the medical officer.

X. The administration of a drug to which the Regulations apply by the medical officer himself, or under his direct supervision (e.g., a hypodermic injection of morphine, or the local application of cocaine) is not held to be "supplying" the drug within the meaning of the Regulations. Any such administration should in the ordinary course be recorded by the medical officer on the record-paper or bed-card of the patient concerned.

Deed of Arrangement

Bowness, William John, Thorne's Lane, Wakefield, chemist.—The following are among the creditors of this debtor, whose deed of arrangement was referred to in our issue of August 12 (p. 229): Brook, Parker & Co., Ltd., £36; Stephenson, Ltd., £21; Goodall, Backhouse & Co., £83; Ayrton & Saunders, Ltd., £36; Tolson, Mary Ann, £185; Blakey, George, & Son, Ltd., £60; Wakefield Corporation, £20; Bleasdales, Ltd., £41.

Bankruptcy Report

Re Stanley F. Ward, trading as Stanley F. Ward & Co., Gort House, 74 Great Tower Street, E.C., and Rue des Brindes, Le Havre, produce merchant.—An adjourned sitting for the public examination of this debtor was appointed to be held on August 15 at the London Bankruptcy Court, but the Official Receiver, when the case was called, said that the debtor had gone abroad with the leave of the Court. Mr. Registrar Francke adjourned the sitting to November 14. A statement of the debtor's affairs showed gross liabilities £135,868, of which £127,840 was expected to rank for dividend, against assets valued at £89,462. The debtor filed his own petition in December last (*C. & D.*, January 21, p. 62), attributing his position to the failure of buyers to take up documents on presentation, to depreciation in the value of goods, and to the shipment to him from America of goods which were not up to the warranty.

Gazette

Bankruptcy Acts

RECEIVING ORDER

DOUGLAS, R. S. E., 53 Meldon Terrace and 62 Gibson Street, Newcastle-on-Tyne, drug-store proprietor.

ADJUDICATION

CARRERAS, A., 4 Marble Arch, London, W., and Carreras, E., Regent Palace Hotel, W. 1, lately at 207 King Street, London, W. 6, tooth-paste manufacturers, under the style of A. & E. Carreras.

Wills

MR. JOHN HENRY HOLTON, Rosslyn, Wroxham Road, Sprowston, Norfolk, retired pharmaceutical chemist, formerly of Grimesthorpe, Sheffield, left estate valued at £904 12s. 3d., of which £865 9s. 9d. is net personalty. He died intestate on July 12. and administration of the property has been granted to his son, Mr. John Charles Holton, chemist, Fakenham.

MR. CHARLES TROUNSON ALLEN, 20 High Road, Kilburn, N.W., pharmaceutical chemist, who died on January 20 last, left estate of the gross value of £1,984 0s. 5d., with net personalty £1,943 4s. 11d. Probate of his will has been granted to his widow, Mrs. Bertha Couper Allen, 20 High Road, Kilburn, and John Andrew Maxwell, 29 Great St. Helen's, E.C., solicitor.

Insurance Dispensing Complaints

At Birmingham Police Court, on August 18, Mr. Walter Carey Scott, chemist and druggist, 316 Wheeler Street, was summoned, under the Sale of Food and Drugs Acts, on a charge of unlawfully selling *mistura alkalina* not composed of ingredients in accordance with the demand of the purchaser. The defendant pleaded "Not guilty." Mr. Minshull, prosecuting on behalf of the Birmingham Health Committee, said that the prescription, which was one under the Insurance Act, contained *mistura alkalina*, the particular meaning of which, together with that of similar prescriptions, had been regulated by the issue of N.H.I. formulas. The object of the Insurance Committee was to facilitate economical prescribing, to secure uniformity, and as far as possible save the time of the doctors in writing out the ingredients. The analysis in the present case showed that, instead of there being 40 gr. of light magnesium carbonate in a bottle containing 7½ fl. oz., there was 39 gr. of heavy magnesium carbonate, and 250 gr. of sodium bicarbonate; instead of 240 gr. The difference in price was trifling; the point was that chemists should make up the prescriptions according to the formulas ordered. Inspector King, in the course of formal evidence of purchase, produced a carbon copy of the prescription. To this Mr. T. H. Walthall (who appeared for Mr. Scott) objected on the ground that no notice had been given. He did not press his objection, however, in face of Mr. Minshull's suggestion for an adjournment. The copy was then admitted in evidence. In reply to Mr. Walthall's suggestion that the mixture was not equally divided, and that, in the circumstances, the magnesium carbonate could scarcely be so, witness said he shook the bottle well. He also informed Mr. Minshull that he used funnels, whereupon Mr. Walthall remarked that some of the carbonate remained on the funnel produced. Mr. John F. Liversidge, F.I.C., Ph.C., affirmed, in cross-examination, that if the bottle was shaken and the mixture divided as stated by the inspector there would be a fair division. There might be a difference of a grain or two between the samples, but the analysis would not be affected materially, and it could not possibly account for the discrepancy found. The formulas substituting light for heavy magnesium carbonate came into operation on June 1, prior to which time the heavy carbonate had always been used. Medicinally, the heavy and light carbonates were the same, and chemically practically equal, though there was rather more sulphate in the heavy. Asked whether, assuming the measurements were right, the mixture was of the nature demanded, Mr. Liversidge said he had given the composition, and the question seemed a legal one for the Bench to decide. Mr. Walthall submitted that, as heavy and light magnesium carbonates had practically the same curative effects, the purchaser was not in any way prejudiced. He explained the shortage in weight by the fact that it was almost impossible to divide the mixture equally. Mr. Scott, in the witness-box, stated that he had dispensed medicines for thirty-six years. Light magnesium carbonate was rarely used unless a special point was made that it should be. Mr. F. H. Alcock, F.I.C. Ph.C., stated, in evidence, that there would be unequal distribution in dividing the sample. He recommended the use of a glass mortar rather than an opaque one, so that the dispenser could see that he had not left any of the material adhering to it. The magistrates held the charge proved, and imposed a fine of £5.

At the same Court, Mr. J. Cairns Johnson, chemist and druggist (trading as R. Fleming & Co.), 148A Lichfield Road, Aston, was summoned on a similar charge in respect of *mistura alkalina*. Mr. Minshull explained that in this case the mixture contained 47 gr. of light magnesium carbonate instead of 80 gr., and 190 gr. of sodium bicarbonate instead of 240 gr. An assistant was in charge of the shop when the visit was made, and stated that he could not say who dispensed the medicine. Mr. Walthall explained that the mixture was a stock

mixture, and was not prepared by Mr. Johnson himself. The defendant was fined £5.

At the same Court, Mr. Robert Halford, chemist and druggist, 301 New John Street West, was summoned for selling *mistura alba* which was deficient in the quantity of magnesium sulphate and contained 65 gr. of light magnesium carbonate in place of 240 gr. of heavy magnesium carbonate. Mr. Minshull said that the defendant, when the inspector tendered 2s. in payment for the medicine, said he would not make any charge, as it would not be right or legal. The defendant, who pleaded "Guilty," said he made the prescription from memory, and his memory failed him. He was fined £5. A second summons for obstructing the inspector was withdrawn.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

Sheffield.—A meeting of the Pharmaceutical Committee was held on August 18, Mr. J. T. Appleton presiding. The resignations of Messrs. G. R. Airey and L. S. M. Dawson, who have left the district, were accepted with regret. Mr. A. Knowles, of Woodseats, was co-opted to fill one of the vacancies; the other was adjourned until the next meeting. Mr. E. Preston was appointed a member of the emergency committee. Several letters were read from the Ministry of Health concerning the new terms for dispensing and duplicate forms. The attention of the Committee was drawn to the prescribing of drugs in the new form, which was considered a very undesirable method. The secretary was instructed to call a small committee to meet the Insurance Committee and Panel Committee to discuss the proposed new prescription forms. The secretary reported that an appeal by the medical man who was surcharged by the Insurance Committee had been held, but the Ministry had not yet given their decision. A report was framed on the prescriptions issued by the Insurance Committee as tests.

Ministry of Health Specifications

The Ministry of Health has issued the following circular:

National Health Insurance

MEDICAL BENEFIT.

The following provisions in connection with the quality, method of supply, etc., of scheduled appliances will, on and after March 1, 1923, form part of the Terms of Service of Persons, Firms or Bodies Corporate under contract with an Insurance Committee for the supply of scheduled appliances to insured persons.

NOTES.

1. **STANDARDS.**—The letters B.P.C. appearing after the name of any article in the following list denote that the article, of whatever size or weight ordered, must conform to the standards specified in the Supplement (1922) to the British Pharmaceutical Codex.

2. **SEALED PACKETS.**—In the case of appliances required to be supplied in sealed packets, where a size or weight not included in the Tariff is ordered, the following procedure should be adopted:—(1) Where the quality ordered is less than the largest size or weight included in the Tariff the nearest Tariff size or weight should be supplied; (2) where the quantity ordered is greater than the largest size or weight included in the Tariff, a number of packets corresponding as nearly as may be in quantity to the quantity of appliance ordered should be supplied. Particulars as to the size and number of packets supplied should be entered on the script and endorsed by the chemist.

3. **BANDAGES.**—The term "bandage" used in a prescription without qualification is to be interpreted to mean a grey open weave bandage of a size 2 ins. x 4 yds. All bandages supplies are to be of the lengths shown in

the Tariff unless the prescription specially indicates a contrary intention on the part of the practitioner.

4. QUANTITIES NOT STATED.—In the case of the following appliances the quantities herein specified are to be supplied where no quantity is stated on the prescription :—

Gauzes ...	$\frac{1}{4}$ sq. yd.	Gutta Percha	} 16 sq. ins.
Gauze and Cotton Tissue ...	2 ozs.	Tissue ...	
Lints ...	} 1 oz.	Jaconet ...	
Cotton wools ...		Oiled Cambric ...	
		Oiled Silk ...	

5. WEIGHTS.—All weights specified in the Tariff in respect of appliances are exclusive of wrapping and packing material and, in the case of unmedicated cotton wool, interleaving paper.

6. EQUIVALENCES.—The following approximate equivalences are given for guidance in cases where certain appliances are ordered in terms other than those stated in the Tariff :—

- Gauze (unmedicated), 1 sq. yd. = 180 grains (approx.).
 Lint (boric), 1 oz. = 144 sq. ins. (approx.).
 Gauze and Cotton Tissue, 1 oz. = 114 sq. ins. (approx.).
 Lint (unmedicated), 1 oz. = 230 sq. ins. (approx.).

LIST OF APPLIANCES.

Adhesive Plaster, per sq. ft.

(Note.—The price shown in the Tariff is in respect of adhesive plaster spread on holland. Any other form of adhesive plaster may be ordered by an Insurance Practitioner.)

Bandages, Rolled.—All bandages are to be supplied wrapped.

Calico, bleached, B.P.C.—Tariff sizes :—2 ins. \times 4 yds., 2 $\frac{1}{2}$ ins. \times 4 yds., 3 ins. \times 4 yds.

Calico, unbleached, B.P.C.—Tariff sizes :—2 ins. \times 4 yds., 2 $\frac{1}{2}$ ins. \times 4 yds., 3 ins. \times 4 yds.

Crêpe, B.P.C.—Tariff sizes :—2 ins., 2 $\frac{1}{2}$ ins., 3 ins.

Domette, B.P.C.—Tariff sizes :—2 $\frac{1}{2}$ ins. \times 6 yds., 3 ins. \times 6 yds.

Elastic Web.—Tariff sizes :—2 $\frac{1}{2}$ ins., 3 ins.

Flannel, B.P.C. (Pale Blue).—Tariff sizes :—2 $\frac{1}{2}$ ins. \times 4 yds., 3 ins. \times 6 yds.

India-rubber.—Tariff sizes :—2 $\frac{1}{2}$ ins. \times 3 ft., 2 $\frac{1}{2}$ ins. \times 7 $\frac{1}{2}$ ft.

Muslin, B.P.C.—Tariff sizes :—2 $\frac{1}{2}$ ins. \times 6 yds., 3 ins. \times 6 yds., 4 ins. \times 6 yds.

Open Wove, Grey, B.P.C.—Tariff sizes :—1 in. \times 3 yds., 1 $\frac{1}{2}$ ins. \times 4 yds., 2 ins. \times 4 yds., 2 $\frac{1}{2}$ ins. \times 4 yds., 3 ins. \times 4 yds., 4 ins. \times 6 yds., 6 ins. \times 6 yds.

Open Wove, White, B.P.C.—Tariff sizes :—1 in. \times 3 yds., 1 $\frac{1}{2}$ ins. \times 4 yds., 2 ins. \times 4 yds., 2 $\frac{1}{2}$ ins. \times 4 yds., 3 ins. \times 4 yds., 4 ins. \times 6 yds., 6 ins. \times 6 yds.

Plaster of Paris, B.P.C.—Tariff sizes :—3 ins. \times 5 yds., 4 ins. \times 5 yds.

Catheters.

Gum-elastic (best brown single web). Soft rubber, 1-12. Soft rubber over 12.

Cotton Wools, Absorbent.—All wools are to be supplied in sealed packets.

Boric, B.P.C.—Tariff sizes :—1 oz., 2 ozs., 4 ozs.

Sal-alembroth, B.P.C.—Tariff sizes :—1 oz., 2 ozs., 4 ozs.

Unmedicated, B.P.C.—To be supplied interleaved.—Tariff sizes :—1 oz., 2 ozs., 4 ozs., 8 ozs., 1 lb.

Gauzes.—All gauzes are to be supplied in sealed packets and in a sterile condition.

Boric, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd.

Carbolic, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd.

Double Cyanide, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd.

Iodoform, B.P.C.—Tariff sizes :— $\frac{1}{2}$ sq. yd., $\frac{1}{2}$ sq. yd.

Picric, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd.

Sal-alembroth, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd.

Sublimate, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd.

Unmedicated, B.P.C.—Tariff sizes :— $\frac{1}{4}$ sq. yd., $\frac{1}{2}$ sq. yd., 1 sq. yd., 3 sq. yds.

Gauze and Cotton Tissue, B.P.C.—To be supplied in sealed packets. The wool to be enclosed in tubular gauze in the case of the 4 oz., 8 oz., and 1 lb. sizes.

Tariff sizes :—1 oz., 2 ozs., 4 ozs., 8 ozs., 1 lb.

Ice Bags.

Rubber, helmet shape. Check, circular shape, 8 ins. diameter.

Lints.—All lints are to be supplied in sealed packets.

Boric, B.P.C.—Tariff sizes :—1 oz., 2 ozs., 4 ozs., 8 ozs., 1 lb.

Sal-alembroth, B.P.C.—Tariff sizes :—1 oz., 2 ozs., 4 ozs.

Unmedicated, B.P.C.—Tariff sizes :—1 oz., 2 ozs., 4 ozs., 8 ozs., 1 lb.

Protectives.

Gutta-percha Tissue, B.P.C., per sq. ft. *Jaconet, B.P.C.*, per sq. ft. *Oiled Cambric, B.P.C.*, per sq. ft. *Oiled Paper*, per sheet 20 ins. \times 30 ins. *Oiled Silk, B.P.C.*, per sq. ft.

Splints.

(Note.—The price shown in the Tariff is in respect of plain arm splints. Any other form of splint may be ordered by an Insurance Practitioner.)

Standard Dressings.—Standard dressings are to be supplied in sealed packets and in a sterile condition. The directions for use must be clearly shown.

Standard Dressing No. 1.

Double cyanide gauze, B.P.C., 35 ins. \times 12 ins.

Absorbent cotton wool, B.P.C., 180 grains.

Grey open weave bandage, B.P.C., 1 in. \times 3 yds.

In the absence of any special directions by the doctor, the dressing should be used as follows :—(1) Cleanse the wound with plain boiled water or antiseptic solution; (2) apply the gauze so as to cover the wound; (3) apply the cotton wool so as to cover and overlap the gauze; and (4) apply the bandage.

Standard Dressing No. 2.

Boric lint, B.P.C., 9 ins. \times 8 ins.

Absorbent cotton wool, B.P.C., 180 grains.

Oiled paper, 6 ins. \times 6 ins.

Grey open weave bandage B.P.C., 2 ins. \times 4 vds.

In the absence of any special directions by the doctor the dressing should be used as follows :—(1) Cleanse the wound with plain boiled water or antiseptic solution; (2) dip the pink lint in hot boiled water, squeeze it as dry as possible, and apply so as to completely cover the wound or affected part; (3) apply the waterproof material so as to overlap the lint by at least half an inch in all directions; (4) apply a layer of cotton wool so as to cover the whole; and (5) apply the bandage.

Suspensory Bandages.

Cotton.

Tows.

Carbolised, B.P.C.—Tariff sizes :—8 ozs., 1 lb.

Unmedicated, B.P.C.—Tariff sizes :—8 ozs., 1 lb.

August, 1922.

August Drug Tariff

The following are the alterations for August in the Insurance Drug Tariff for England and Wales :

Lower.—Am. ichthosulph., 3 $\frac{1}{2}$ d. oz.; atrop. sulph., 1s. 6d. gm.; butyl-chlor. hyd., 1s. 4d. oz.; ext. bellad. lig., 1s. 1d. oz.; ext. glycyrrh. liq., 3s. 10d. lb.; guaiacol liq., 1s. 9d. oz.; lin. bellad. meth., 4s. lb.; lin. camph., 2s. 8d. lb.; lin. sapon. meth., 1s. 8d. lb.; methylsulphonal, 1s. 10d. oz.; ol. cadini, 2s. 8d. lb.; ol. caryoph., 15s. 6d. lb.; ol. limonis, 6s. lb.; pot. acet. (dry granules), 2s. 2d. lb.; pulv. lobel. co., B.P.C., 3s. 8d. lb.; pulv. stramon. co., B.P.C., 3s. 8d. lb.; sapo mol., 1s. 10d. lb.; scammon. res., 7s. 6d. lb.; tr. benz. co., 5s. 8d. lb.; tr. card. co., 3s. lb.; tr. chlorof. et-morph., 35s. 3s. 7d. lb.; tr. guaiaci am., 7s. 6d. lb.; tr. lobel. 78s. 6d. lb.; tr. lobel. aeth., 8s. lb.; tr. stramon., 4s. 6d. lb.
Higher.—Anthem. flor. exot., 6s. lb.; calc. lact., 4s. 4d. lb.; copaiba, 3s. 6d. lb.; guaiacol carb., 1s. 5d. oz.; ol. menth. pip., redist., 13s. 6d. lb.; ol. tereb. rect., 3s. 4d. lb.; terebenum, 5s. lb.; tr. sumbul, 1s. 2d. oz.

A Memory of Madras

Of the many rôles forced on me by the war, certainly the most congenial was that of assistant chemist at the Government Medical Stores, Madras. Life in the Service is a chequer-board of dark and light, and after three or more years of servitude and adventure as private and non-commissioned officer I found myself, towards the end of 1918, amid pleasant surroundings, with interesting work and a measure of personal liberty unknown since pre-war days.

Madras is the most rural of Indian cities, a vast and widespread collection of native bazaars and European suburbs, and everywhere there are broad roads lined with trees, so that even in the hottest season the eye is refreshed by long vistas of green leaves. There is no lack of space here, as in Bombay; the city extends along the coast for about nine miles, and covers an area of twenty-seven square miles; and the houses of the Europeans and the wealthier natives are set in compounds which, to the townsman of the West, seem to deserve the name of parks. For "shops" in the accepted sense one looks in vain: the European trading quarter consists of large Lungalows embowered in trees—witness the huge and handsome premises of W. E. Smith & Co., pharmaceutical chemists, which by the uninitiated might be mistaken for the town hall or public baths.

On reporting for duty I found that the laboratory was well furnished with up-to-date appliances for turning out pharmaceutical products on a large scale. The plant included stills, percolators, ointment- and drug-mills, hydraulic presses for the extraction of castor oil and arachis oil, and pill- and tablet-machines. For some months research work had been carried on with the object of developing the natural resources of the country, and of producing in India, from indigenous raw materials, such drugs and chemicals as were most urgently needed by the hospitals. As it was part of my job to prepare samples of thymol, I remember the process well. Ajowan fruit from *Carum copticum* was steam-distilled, and the oil collected. The oil was then further distilled at a temperature not exceeding 200° C., and the distillate collected in fractions. These were shaken with successive portions of strong sodium hydroxide solution, and the watery alkaline layer was separated. On acidifying with hydrochloric acid thymol was precipitated, and by recrystallising from alcohol a fine white product was obtained. Other jobs that fell to me were the washing and preparation of rice for manufacture of pulv. amyli, distillation of the oils of clove, cedarwood and chaunmoogra, and the preparation of samples of various chemicals. The staff of the laboratory was chiefly native, and discipline was maintained by warrant officers of the Indian Medical Service. It was a strange sight to see brown-skinned natives, all but naked, their foreheads smeared with caste-marks, attending the tablet-machines, or presiding over the stills where so, ether nit. was being made. They were skilful at their work, though I doubt whether they understood the meaning of the various operations in which they were engaged. Some had a smattering of English, but the majority spoke Tamil or Telugu, tongues that very few Britishers are able to master.

A FESTIVAL IN THE LABORATORY

Perhaps the most astonishing trait of the native worker is his belief in the gods of the machines. You may pour Western culture on him like water from a sluice, but you cannot wash from his mind the pantheism of countless generations. The gods are everywhere, the most up-to-date laboratory not excepted. On a certain day these gods are propitiated: the day is a festival, a time of "tool-worship," and no work is done. One morning there was no sound of labour or noise of machines; the boilers were empty and the dynamos silent. All the appliances—stills, percolators, presses, mills—were decorated with flowers and leafy branches, and at the end of the main laboratory stood a large heap of grain, apples, oranges, plantains and coconuts. Behind these were grouped the various implements of the craft—scales, measures, mortars, knives and pestles, each article being smeared with ochre or vermilion.

Chairs were set for the European staff, and when we had seated ourselves sticks of incense were lighted and a piece of gum thus was burned on a scale-pan before the pile of fruit and grain. An old man, grizzled and sun-bitten, then spoke a formula, accompanying his incantation with many salaams. This finished, garlands of flowers, made of a kind of marigold threaded tightly on strings, the ends being finished off with crimson hibiscus blooms, were hung around our necks to the accompaniment of a great clapping of hands from the assembled staff. Afterwards we were presented with gifts of oranges and limes, and the ceremony was repeated in each department. By the time we had made the round of the stores we were weighed down by garlands, and the sickly smell of the flowers, which appeared to have been artificially scented, was very unpleasant; but it was necessary to preserve an inviolable gravity. We were now supposed to be immune from mishaps and accidents for a whole year, but perhaps the offering of coconuts was insufficient, or the plantains were of inferior quality. Whatever the cause, certain it was that the god of the pill-machines was unappeared, for a few days afterwards, while a batch of pill. pot. permang. was being "piped," the whole mass oxidised, wrecking the machine and filling the department with ominous thick fumes.

Reviewed now over an interval of years, this period of my life seems as nearly ideal as human life can be. The hours of duty (10 a.m. to 5 p.m.) left ample time for leisure, and I made many friends. The day began at 6.30, when my "boy" (all personal servants, of whatever age, are "boys" in India) awakened me from sleep under an electric punkah by murmuring the magic words "Tea, Sahib!" in my ear. The interval before breakfast was occupied in tennis or cycling, or in a prolonged toilet. After three hours' work came tiffin, and between mouthfuls of curry and rice I read *THE CHEMIST AND DRUGGIST*, whose familiar cover, not seen for years, was welcome as the face of a friend. The day's work over, I bathed and changed into cool cotton "civvies"; then came more tennis, dinner by lamplight, and perhaps a concert or a dance, or, if the moon was at the full, surf-bathing at midnight, followed by a picnic on the beach. But this life was too near a state of supreme bliss to last, and presently the monsoon broke. The bungalow became an island accessible only by riding pick-a-back through a waist-high flood, on the shoulders of a stalwart rickshaw-wallah; spotted kingfishers appeared as if by magic in the brimming streets and fished nonchalantly in the gutters; a choir of invisible frogs croaked without ceasing; and spare boots put on a garment of green mould. On November 10 came a typhoon that left the city littered with *débris* and fallen trees—a sort of grand finale of the elements; and next day the news of the Armistice set a term to my engagement. Soon after Christmas I was sent to Bombay, there to await the tedious process of demobilisation, which, delayed by various causes, was not completed until another full year had passed.—"PEEPUL" (22/7).

DOPE SMUGGLING IN INDIA AND BURMA.—In a recently published book on "Drug smuggling and taking in India and Burma," Mr. R. K. Anderson, Burma Excise Department, says that the men who finance smuggling are to all appearances respectable merchants, with flourishing businesses which camouflage their real occupation. These men do not handle the drugs, but leave the details to underlings. The author also mentions that a number of the preventive officers are amenable to bribes.

GERMANY BUYING GLYCERIN.—In a letter to the "Daily Mail," Mr. W. Britton, of the Ex-Service Men's Trading Co., writes: "Among other goods we have for some time been handling a toilet-soap manufactured in Copenhagen, Denmark, but have now received a notification from our suppliers that, owing to extraordinarily large purchases of glycerin by Germany, who have bought all available supplies, we are reluctantly compelled to advance the price of our products." According to an editorial article on the same subject, glycerin is used for making soap!

B.P. Notes

By "Abel Scholar"

Quinol or Hydroquinone

The B.P., in the tests for resorcinol, refers to quinol. The term "hydroquinone," which is better known to pharmacy, would have been preferable.

A Syrup Preservative

Certain official syrups are liable to ferment, and of these *syrupus rhæodis* is a grave offender. If sterilisation is attempted those which contain alcohol are liable to be deficient in this substance and, in all cases, the quantity used is not sufficient to act as a preservative. The usual method of keeping syrups is faulty, and, if kept in well-stoppered containers, there is the danger of bursts. All this could be easily overcome if a few drops of chloroform per fluid ounce were added.

The Spelling of "Ether"

The official translation of "ether" varies. It appears as written under ethyl chloride and under liquor ethyl nitritus, but under spiritus ætheris nitrosi the diphthong is used. A teacher tells his student that the B.P. monographs, etc., are arranged alphabetically. Where is the latter to look for these: under A or E? It will also be observed that ether is æther; then there is æther aceticus, æther purificatus, spirit. ætheris, and tinctura lobeliae æthereæ. On reference to the index ambiguity is settled by omitting reference to æther. Where, then, should æther appear in the index? On page 568 we note ether (æth.) along with the next six items on the same page. The "way out" would be to adopt the "ether" nomenclature. Ether, perhaps, should be designated ethyl oxide.

Test for Resorcin

The B.P. says a weak aqueous solution (query how weak?) is coloured bluish-violet by T. sol. of ferric chloride (how much?), the colour changing (when?) to brownish-yellow on the addition of solution of ammoniac (quantity?). This is the test given to distinguish resorcinol from catechol and quinol. When solution of ammonia is added to ferric chloride solution or *vice versa* the well-known foxy-red precipitate of ferric hydroxide is obtained, and this precipitate somewhat obscures the reaction. If, however, the addition of the solution of ammonia is preceded by the addition of 5 gr. Rochelle salt the colour reaction is well seen. All students of chemistry are, or should be, acquainted with the fact that ferric hydroxide is not precipitated by ammonium hydroxide in the ferric salt solution when the tartarated soda is previously added.

Assaying Tinct. Opii

Many years ago a chemist who had difficulty in assaying emp. bellad. was recommended by the writer to use, as the solvent, chloroform, which enables the dilute hydrochloric acid to remove all the alkaloid from the fats, waxes, and greases, and this is suggested to the writers of the paper on opium (*C. & D.*, April 29, p. 67). Some years ago it was shown by Mr. Dott, of Edinburgh, that opium contained morphine sulphate, and a subsequent writer (I believe, Mr. F. H. Alcock), in a paper before the Wolverhampton Pharmaceutical Association, suggested the addition of a little dilute sulphuric acid in preparing the tincture which, he was able to show, increased the alkaloidal yield as determined by the assay process then in official use. The retention of alkaloid by the mares of cinchona, opium, ipécacuanha, belladonna, and others is well worth investigation. This may not be entirely due to resins, etc., but to tanninoid bodies which possess a tenacity for alkaloids. Is not tannic acid an antidote for and incompatible with alkaloids? It is difficult to release the alkaloids except by the use of alkalis.

TUITION IN ANALYTICAL CHEMISTRY.—The full-time day course in analytical chemistry at the Central Technical School, Leeds, which has been arranged so as to cover three or four years, is recognised by the Institute of Chemistry.

Marriages

DE MONTEZUMA—DE GREEFF.—At St. George's Church, Bicklev, Kent, on August 3, John Marcondes de Montezuma to Tony de Greeff, youngest daughter of Robert William de Greeff, Elm Bank, Sundridge Avenue, Bromley, Kent.

DENT—MARTIN.—At Helston Wesleyan Church, on August 9, by the Rev. W. Cummings Gourd, Harold Collett Dent, B.A., Rotherham, son of the late Rev. F. G. T. Dent, to Loveday Winifred, elder daughter of Mr. John B. Martin, J.P., chemist and druggist, Hillside, Godolphin Road, Helston.

GARBUTT—ROBINSON.—At the Jewish Synagogue, Durham, on August 16, J. Garbutt, chemist and druggist, youngest son of Mr. S. Garbutt, Stockton-on-Tees, to Phyllis, youngest daughter of Mr. Robinson, 38 Hawthorne Terrace, Durham.

GIBSON—MARTIN.—At Helston Wesleyan Church, on August 15, by the Rev. Sylvester Lee, Arnold Mackenzie Gibson, M.A., Repton, son of the late Mr. W. Yates Gibson, Manchester, to Alice Isabel, younger daughter of Mr. John B. Martin, J.P., chemist and druggist, Hillside, Godolphin Road, Helston.

GIDDINS—KNOTT.—At St. George's Church, Bolton, on August 16, by the Rev. Canon Darbyshire, precentor of Manchester Cathedral, assisted by the Rev. S. Taylor, vicar of St. Matthew's, Bolton, and the Rev. C. M. S. Clark, curate of St. George's, Arthur Giddins, M.C., Bolton, son of Mr. G. Giddins, St. Ives, Huntingdonshire, to Marjorie, elder daughter of Councillor Percy Knott, chemist and druggist, 1 Blackburn Road, Bolton.

MILLS—BOWIE.—At Highgate Presbyterian Church, London N., on August 19, by the Rev. G. B. H. Macpherson, James Dick Watson Mills, B.Sc. (Edin.), A.I.C., to Dorothy Meldrum, elder daughter of Mr. G. Duncan Bowie, M.P.S., 46, Tufnell Park Road, N.7. Friends welcome at Comely Park, 31, Upsdell Avenue, Palmer's Green, N., after September 11.

TIMM—PETTIT.—On August 16, Edmund Brunyee Timm, chemist and druggist, elder son of Mr. Edmund Timm, Ph.C., Aire Street, Goole, to Doris Mary, only daughter of Mr. W. Pettit, Canterbury.

WANT—ANDREWS.—On August 18, William Philip Want, Ph.C., F.C.S., editor of "The British and Colonial Pharmacist," Dixcart, Pearfield Road, Forest Hill, London, S.E.23, to Mabel (Madge), daughter of Mr. William A. Andrews, Warwick Lane, E.C.4, and Leeds.

Silver Wedding

WARDEN—HALLIDAY.—At Peckham Park Road Baptist Chapel, on August 28, 1897, by the Rev. Frank James, Albert Ernest, sixth son of the late Mr. George Frederick Warden (Chippenham, Wilts), to Clara, fourth daughter of the late Mr. William Halliday, Peckham. Present address: Melrose Avenue, Mitcham, Surrey. Mr. Warden has been a member of the chief staff of Burroughs Wellcome & Co. for 30 years.

Deaths

ALCOCK.—At 6 Sunny Bank, Lyncombe Vale, Bath, on August 7, Mr. Henry Alcock, chemist and druggist, aged seventy-one.

BALL.—At Liverpool, recently, Mr. Henry George Ball, retired chemist and druggist, aged eighty-six. Mr. Ball opened in business at Burslem, Stoke-on-Trent, in 1857, and for more than thirty years carried on a pharmacy in premises in Queen Street, now occupied by Mr. Thomas Charles, chemist and druggist. He was a member of the Wolstanton and Burslem Board of Guardians for a long period, and served a term of office as its chairman: the Burslem Town Council and other local public bodies also had the benefit of his assistance, and for forty years he prided himself on never missing a meeting to which he was called. Since retiring from business Mr. Ball had resided at Porthill, and latterly in Liverpool.

BAILEY.—At 70 Broad Street, Portsmouth, on August 21, Mr. Herbert Henry Bailey, chemist and druggist, aged fifty-five. Mr. Bailey, who passed the Qualifying examination in 1888, spent practically the whole of his business career in Portsmouth, going there from Buckhurst Hill, Essex. His shop in Broad Street first became a pharmacy in 1880, when the late Mr. W. B. Townley commenced business. Mr. Bailey succeeded Mr. Townley, and his pharmacy, with its old and characteristic front, was one of those illustrated in *THE CHEMIST AND DRUGGIST* in connection with the Portsmouth meeting of the British Pharmaceutical Conference in 1911, at which time the accompanying portrait also appeared (*C. & D.*, I., 1911, p. 740).



MR. H. H. BAILEY

BUTTERFIELD.—Recently, as the result of an accident, Elizabeth, wife of Mr. Frederick Victor Butterfield, chemist and druggist, 5 Station Bridge, Harrogate.

HOCKING.—At his residence, Grovelands, Falmouth, on August 18, suddenly, Mr. James Arthur Hocking, chemist and druggist, proprietor of Wilmer & Hocking, chemists, Falmouth and Penryn. Mr. Hocking qualified in 1901.

LOCKERBIE.—At 28 Marchmont Road, Edinburgh, on August 7, Mr. James Lockerbie, retired chemist and druggist, aged seventy-five.

MARTIN.—At 56 Church Road, Tranmere, Birkenhead, on August 5, Mr. Alfred Martin, chemist and druggist, aged thirty-nine.

PEARSON.—At Turriff, on July 29, Mr. James Pearson, chemist and druggist, aged twenty-eight.

SALTER.—At 34 Elm Bank Gardens, Barnes, London, S.W., on August 14, Mr. Francis Septimus Salter, chemist and druggist, aged seventy-seven. Mr. Salter carried on business in Mount Street, Grosvenor Square, London, W. 1, for many years.

SMITH.—On August 15, suddenly, Mr. Walter Leslie Smith, chemist and druggist, aged forty-four. Mr. Smith had been manager of the Rhyl branch of Boots Cash Chemists (Western), Ltd., for the past two years.

WHITE.—On August 5, Mr. James Carter White, chemist and druggist, The Grange, Grimoldby, formerly of Great Grimsby, aged fifty-five.

WOOD.—At 9 Market Square, Stonehaven, on August 15, Mr. Alfred Lyon Wood, chemist and druggist, aged sixty-two. Mr. Wood succeeded his father, the late Mr. James Wood, in business. He was for many years in the Stonehaven Company of the 5th Volunteer Battalion Gordon Highlanders, which he eventually commanded with the honorary rank of major, and was also keenly interested in golf and cricket. A widow, one son and three daughters survive him. The funeral took place at Broomhill Cemetery on August 18. Among the numerous gathering there were present the Provost and members of the town council; Mr. Milne (William Paterson & Sons, wholesale chemists, Aberdeen); and Mr. G. W. Hall, chemist and druggist, Stonehaven.

Personalities

MR. H. M. LLOYD, chemist and druggist, member of the Pharmaceutical Society's Council, has been appointed a justice of the peace for Merthyr Tydfil.

MR. JOHN GIBSON, F.S.A., chemist and druggist, Hexham, is contributing a series of articles to "The Hexham Courant" on "Glimpses of the Borderland," illustrated from his own photographs.

MR. D. C. BLACK, chemist and druggist, having presented the necessary diplomas to the Royal Court of Jersey, has been granted permission to practise as a chemist in the island.

We are indebted to Mr. A. B. Sparrow, chemist and optician, Southsea, for the accompanying snapshot of Mr. John Cleworth, taken at Nottingham during the British Pharmaceutical Conference. Mr. Sparrow suggests that a photograph showing how Mr. Cleworth "does it" may be interesting to the readers of the *C. & D.*, and it is due to him to add that in the original, which is postcard size, the detail of a well-composed picture is, naturally, more evident than in our small reproduction. We have almost lost count, but we believe it is fifteen years since Mr. Cleworth first began his beneficial work of pictorially recording Conference doings. "What Sir Benjamin Stone was to the British Houses of Parliament," wrote the late Mr. Peter MacEwan in 1914, "John Cleworth is to the British Pharmaceutical Conference."



MR. J. CLEWORTH PHOTOGRAPHING

PROFESSOR STEFAN MINOVICI has been entertained to dinner by Roumanian pharmacists in celebration of his twenty-fifth year of academic life, and has been presented with a medal, some idea of which is conveyed by the accompanying illustration. The sum of 100,000 fr. has been raised for the purpose of founding a scholarship for pharmaceutical research, which scholarship will bear his name. We understand that Dr. Minovici is to visit Cambridge next year, and it is not impossible that he may be present at some of the functions of the International Pharmaceutical Federation in London. A biographical sketch of him, with portrait, appeared in *THE CHEMIST AND DRUGGIST*, II., 1921, p. 51.



RATHER more than a year ago Mr. T. Westall, J.P., chemist, Castries, St. Lucia, British West Indies, arrived in this country for the purpose of laying before the British Government the desire of the people of the island for representative government. From a St. Lucia newspaper which has been forwarded to us we learn that an instalment of the reform has been secured, and that Mr. Westall was the principal speaker at a large and enthusiastic meeting held on July 12 of this year to celebrate the event. Among the members of Parliament to whom a vote of thanks was passed at the meeting is Sir Richard Winfrey, M.P., Ph.C., whom Mr. Westall originally approached with an introduction from Mr. E. J. Millard, Ph.C., managing director of C. J. Hewlett & Son, Ltd., manufacturing chemists and export druggists, Charlotte Street and Curtain Road, London, E.C. 2. Mr. Millard, by the way, has been giving the "Daily Mail" the benefit of his views on the translation of the British Pharmacopœia into Chinese. Mr. Millard refers to the reputation of British pharmaceutical products in the following terms: "The cautious Chinese will not buy any medicine unless it bears its 'chop' or trade-mark, and the British 'chops' have great fame in China."

Trade Notes

COMES.—Mr. H. Wiseman, 42-43 Gutter Lane, London, E.C., calls attention to a line of black celluloid combs which he is offering at reduced prices.

POTASSIUM BROMIDE.—An interesting offer of potassium bromide is made by the Formol Co., 277 High Holborn, London, W.C., on another page in this issue.

KEEN quotations for Irish moss and fine and heavy chemicals are obtainable from Fine Chemicals, Ltd., 40 Mary Street, Dublin, whose advertisement will be found on another page of this issue.

STOCKTAKING.—Burroughs Wellcome & Co., Snow Hill, London, E.C.1, inform us that their warehouses will be closed for stocktaking on August 31, and that only emergency orders can be executed on that day.

PAOLO DE PASQUALE FU GIACOMO, Contesse, Messina, have appointed P. Mellis & Sons, Ltd., 60-62 Bunhill Row, London, E.C. 1, as sole agents in the British market for the sale of their essential oils.

ERADICUS, a cleanser which, it is claimed, will remove all stains and dirt from everything, has been put on the market by Eradicus, Ltd., 4 Lime Street, London, E.C. 4. A free sample will be forwarded on application, mentioning the *C. & D.*, to the company.

PILL MACHINERY.—Leicester, "the hub of England," has a reputation for pharmaceutical machinery, and elsewhere in this issue Grimsley & Co. (Leicester), Ltd., Queen Street, Leicester, illustrate some of the types of plant they build for pill manufacturers.

ARECO, LTD., 59 New Bond Street, London, W. 1, announce an advertising campaign on a large scale, including a distribution of coupons. The September programme is given on another page; further particulars and window-bills will be forwarded on application to the company.

BAINES' DIELECTRIC, a remedy for local pyrexia, is advertised in this issue by Baines' Dielectrics, Ltd., 2 and 4 Tudor Street, London, E.C. 4. Excellent results have been reported from time to time as attributable to the use of this application, and we have no doubt that the manufacturers are in possession of some interesting clinical records.

INDIAN TRADE INQUIRY REPORTS.—The latest report of the Imperial Institute, entitled "Drugs and Tanning Materials," deals with cinchona bark and myrobalans. Further particulars of the volume, which should be of interest to all concerned with the commerce and industry of these materials, will be found in the advertisement of Mr. John Murray, Albemarle Street, London, W. 1. The report on cinchona was summarised in the *C. & D.*, August 19, p. 292, and that on myrobalans on page 320 of this issue.

HARKER VETERANS.—A paragraph on the aggregate length of service of certain veterans on the staff of Francis Newbery & Sons, Ltd., which appeared in this section of our last week's issue (p. 284), has prompted a member of the staff of C. R. Harker, Stagg & Morgan, Ltd., wholesale and export druggists, Devon Wharf, London, E. 1, to do an addition sum in respect of six Harker veterans, whose total years of service, he finds, amount to 302—rather over fifty years each. Two of them were in the trade for eleven or twelve years before entering Messrs. Harker, Stagg & Morgan's employ.

LABORATORY ALARM CLOCKS.—Elberd-Styles & Co., Ltd., 287, Upper Street, Islington, London, N.1, call our attention to the fact that their laboratory signal clock, the "Warner," is being used by several well-known houses in the drug-trade. The signal can be arranged to give a warning at any number of minutes less than sixty, a switch being provided to prevent unnecessary ringing, and the value of such a clock for timing operations is obvious. The connections are electric, and the batteries used are the ordinary stock sizes. The price compares not unfavourably with that of a domestic alarm clock.

"THE ENTHUSIAST."—The house-organ of the Vinolia Co., Ltd., has recently celebrated its first birthday. The current issue, which well maintains the standard set up by former numbers, contains a note on the pharmacy of J. Evans, Ltd., Dublin, believed to be the oldest pharmacy in Ireland and probably in the United Kingdom. It is interesting to note that among the pharmacy pots forming one of the illustrations to the note are three which were portrayed in *THE CHEMIST AND DRUGGIST*, II., 1898, p. 201: apparently they are still "going strong."

BISMUTH DYSPEPSIA TABLETS (MEGGESON).—In another part of this issue will be found particulars of the Bismuth Dyspepsia Tablets of Meggeson & Co., Ltd., New Church Street, London, S.E.16, which are put up in two sizes. The formula is given on the label. Apart from the excellent finish of the tablets, the distinctive feature is the use of oil of lavender as the aromatic ingredient. Lavender has, perhaps, had somewhat less than its due in this capacity; its employment as a digestive adjuvant is founded on sound experience. The retail price is protected.

NEW EAST INDIAN ESSENTIAL OILS.—The first arrival of two East Indian oils which are new to the London market have reached Mr. K. B. Mavlinkar, 26 to 27 Hatton Garden, London, E.C. One is eugenol-free cinnamon leaf oil, which is of a very pleasant odour, and will be offered to manufacturing perfumers as a suitable basis for carnation perfume. The other is ajowan-seed oil, the product of two factories in Central India. This oil is guaranteed to contain a minimum of 60 per cent. of recoverable thymol. Full particulars may be obtained from Mr. Mavlinkar, who has been appointed sole selling agent for the United Kingdom and Europe.

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Monday, August 28

The Dental Exhibition, University of London, Imperial Institute, South Kensington, S.W. Closing date, September 1.

Thursday, August 31

The Chemists' Dental Society, Dental Exhibition, Imperial Institute, South Kensington, London, S.W., at 5.30 p.m., Council meeting. At 6 p.m., ordinary meeting.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

M/178. Albargin tablets	B/178. Maltocascara
B/218. "Barley Oats"	A/248. Pectin
C/228. Belgian cotton-wool (suppliers)	T/188. Pyrozone
D/178. Cachets Azimes (Spella)	M/188. "Quinby"
B/48. Coal-tar liquid shampoo	M/228. Rheu-Ped bath salts
C/178. Collodien soap	E/188. Slogogene
B/218. Diemthol	B/178. "St. Bernard" Ointment
P/218. Goldereine	M/218. Thecosol
A/188. "Goose Step" foot supports	B/178. Tressine
B/238. Hydrolysed keratin	A/228. Urascentic pills
B/218. "Kohn"	S/178. Valentine's hair tonic
C/198. Lavoille	M/228. Valentine's shampoo powder
H/188. "Life for the Hair"	B/178. Field's jade tape (suppliers)

INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, *THE CHEMIST AND DRUGGIST*, 42 Cannon Street, London, E.C. 4.

Algonomic balm. R/198	Epsom salts (pea crystals). D/178
Antikamnia. G/178	Grubler's stains. M/178
Antiphlogistine. G/178	Melrose tablets. B/178
"Bronco" toilet rolls. R/178	Mentholatum. B/178
Capping skins. G/228	Musculosine. S/188
Dioxogen. S/178	Quinophen tablets. C/178
Dr. Fournier's hygienic mixture. S/178	Reccisal. M/188

Observations and Reflections

By Xrayser II.

August,

though it is with us pre-eminently the holiday month, is perhaps of all the summer months the one which to the lover of English scenery shows the country in its least attractive aspect. The meadows have then been shorn of their profusion of flowers, and become bare and parched; the birds are mostly silent; the woods have, in Gerarde's phrase, become over-worn, and are subdued to one uniform sombre green; the air is heavy and languid. This year has added floods of rain and devastating storms; but in this our Mark Tapleys, if there are, any left, will have found some compensation for the month's usual comparative dullness. What magnificent sky scenery it has given us! What gorgeous sunsets! What lucid though delusive dawns! The trees, too, have thus kept much of their freshness of hue, the pastures are almost as green as in spring, and the air, as I breast the hill this breezy morning, has almost the flavour of April.

There is a Limit,

of course, to the extent to which sales of any class of goods can be increased without an appreciable increase of overhead expenses; but within reasonable limits "Commonsense's" contention (*C. & D.*, August 19, p. 239) may be allowed, as regards articles not requiring any special treatment or displacing more remunerative articles of the same kind. It does not follow, however, that it is wise to encourage the sale of goods bearing a less rate of profit than estimated overhead expenses demand. So long as this kind of business can be regarded merely as a makeweight it may be very well, but if the habit of accepting low rates of profit grows beyond this point it may play the mischief with us. We must not appreciably lower the average rate of profit on which our income is calculated. I have, however, always contended that it is impossible to apportion to any article or class of article in which we deal its exact share in our overhead expenses.

"Co-opt"

seems in Ireland, as here, to have ousted "co-optate," though I should have thought the latter the more correct derivative of "co-optare." The other is, however, the shorter, which counts for much, and I bow to the decision of the man in the street. It would be pedantry to do otherwise, since the decision seems to be ratified by general custom. I was amused the other day by an essay of Mrs. Meynell's complaining of the use of the prefix "un-" in words of Latin origin, as in "unfortunate," "unconquerable," and the like. She admits it is too late to revive such forms as "inconquerable" (used by Bacon), but she herself writes "intranslatable." In a similar spirit she runs amok at such compounds as "tireless," "ceaseless," in which "less" is joined to a verb, a construction technically judged incorrect. But Mrs. Meynell is (to use a word she would probably condemn) an acknowledged stylist; and once one is preoccupied with style, custom and common-sense go by the board. So "co-opt" let it be! I see the dictionaries allow it.

The Preliminary,

in some respects the most important of our examinations, for it is the foundation on which all that follows is built, is the most indeterminate in character and the least satisfactory in its results of all the tests to which our Society subjects the budding pharmacist. Professor Greenish was probably right in saying that the decision to retain the junior examination of the College of Preceptors was fatal to progress; at any rate, it is certain that our Preliminary is not satisfactory. Professor Greenish referred especially to inefficiency in arithmetic, but the worst feature is the lack of general culture, due mainly to the neglect, or the bad teaching, of English, and partly perhaps to the dropping of Latin as a necessary subject. In your list of subjects required for this examination English is rightly put first, but the way in which it is taught in most schools, as if

it were a dead language, subject to the rules of an alien grammar, robs it of most of its value. The only sensible way of teaching English—that is, of teaching the scholar how to express himself intelligibly and effectively in his native tongue—is by a large acquaintance with the best English writers and the practice of literary composition on matters in which he has a living interest. Grammar, if taught at all, should come last, instead of being, as it usually is, the beginning (and too often the end) of everything. Dictation is almost worse than useless, except as a test of spelling, for it kills originality; and paraphrase—the turning of good poetry into bad prose—is a still greater mistake. Good reading, and careful composition, the fitting of the word to the thought, are the only essentials.

"G.B.D.,"

did too much in his seventeen days (*C. & D.*, August 19, p. 280). I have at different times been over much of the ground he describes, but at a less break-neck speed, and once, "to compare great things with small," I "did" Switzerland on much the same lines; and my advice to tourists, based on experience, is that a quieter holiday, allowing of a short stay here and there, is both more enjoyable at the time and leaves a richer harvest in the memory than such a hasty rush as his. I dare wager that his capital "hurry-graph" of his tour was not written without several references to Baedeker. I once dined at Cologne with a newly-married couple from Baltimore who were "doing" Europe in a fortnight. They had just arrived from Paris and had "done" the Louvre. It turned out that one of them had "done" one side of each room while the other "did" the other. But this is not really the way to do it.

I am Glad

to see it announced that the Dangerous Drugs Act is to be amended with a view of preventing doctors prescribing these drugs for their own use. If the Act is continued at all, they ought to share the inconvenience to which others are put with less reason, and possibly an amendment of this sort will stimulate their sympathy with us. If doctors are not prohibited from drugging themselves, why should other people be?

That "Merry Monarch"

Charles II. had so many faults that one should not depreciate his few virtues, among which was the intellectual curiosity which led him to interest himself in the scientific movement of his age; but it would be easy to exaggerate the importance of his patronage of the sciences, and he is said to have poked fun somewhat irreverently even at the promoters of the Royal Society, of which he was nominally the founder. Not only British science but modern science generally may be said to date from his time; but his birth at that particular time was one of the accidents of history. The Royal Society really sprang out of an earlier association of scientific men, the "Invisible College," established in London in 1645, and modelled upon the Italian Academies at Naples, Florence, Rome, and elsewhere, the earliest of which dated from 1560, and one of which, the Accademia dei Lincei of Rome, founded in 1603 by Prince Federigo Cesi, is still represented by an Italian Society of the same name. Our "Invisible College" persisted until the death of Cromwell, meeting at Gresham College, and these meetings were resumed at the Restoration of 1660, two years after which the Royal Society was constituted, as such, by Charles. Being away from my books, I cannot say what part, if any, his chemist, as your French correspondent (*C. & D.*, August 19, p. 276) calls him, Nicolas Lefèvre, took in the constitution of the Society, but it was the Englishmen, Drs. Wilkins, Willis, Goddard, the Hon. Robert Boyle, Evelyn, Bishop Sprat, and others, to whom the credit of its establishment is chiefly due. Lefèvre, who is remembered chiefly for his modification of the old theory of the three elements or principles, sulphur, mercury, and salt, adding to them "water" or "phlegm" and "earth," and calling sulphur "oil" and mercury "spirit," died in 1674.

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Editorial Articles

Business Knowledge

THE resuscitation of the Fairchild Scholarship brings once again into prominence the subject of business knowledge. The scope of that knowledge should be regarded as what is usually taught by masters to their apprentices ; but, if we judge by some of the letters we receive, this imparted knowledge must be exceedingly elementary. The principle is, however, sound in its conception, and probably will lead, if rightly developed, to more attention being paid to business knowledge. Time was when buying in the cheapest market and selling in the dearest was considered the Alpha and Omega of business. To some extent the older generation still sum up their doctrine in similar terms, and go on accumulating stock, believing it to be as good as cash. When prices were stable and buying in quantity was limited to lines with reasonable turnover, little harm could be done in buying six, or even twelve, months ahead, so long as the

margin of discount warranted; but in these days of fluctuations, even of proprietary lines, it needs more than ordinary ability to avoid being let down. It was usually charged against the smaller shopkeeper that he kept no books or, even if he did, they were reduced to a meagre quantity that no accountant could accept. With income-tax at ninepence in the pound, there was, so the shopkeeper thought, no need to worry; but when the tax reaches its present figure, coupled with the zeal of the newer supervisors anxious to make good, the position is different, and it is becoming quite common now for the chemist to depend on chartered accountants for the preparation of the annual balance sheet. This entails keeping books according to the requirements of the particular accountant. Many systems for chemists' account-keeping have been put forward, one or two simple and excellent; but the papers usually given at association meetings during the winter months are interesting merely as representing the personal equation. Wherever the business is outside the usual channel, it is a paying proposition to act under expert advice, which may be said to be the beginning of wisdom in these matters. It is a sound foundation on which to build up success under modern conditions to obtain accurate knowledge of one's own accounts. This is not all: the organisation of a business, small or large, should be systematic. This entails thinking out various interacting factors extending well beyond mere buying and selling. Organisation will deal with the method which enables us to know about our stock and the relative turnover values of the various items just as completely as we should know about the accounts. In late years there has been a steady increase in the number of books dealing with business organisation; and while it is not possible to organise on book knowledge, nevertheless, many a stimulus to ideas can be gathered. "The Organisation of a Small Business," by W. A. Smith, A.C.W.A. (Sir Isaac Pitman & Sons, Ltd., 2s. 6d. net), for instance, illustrates many of the points of interest; and though it is written to help small manufacturers, it deals with organisation in a way likely to furnish ideas to anyone who will think matters out for himself. One chapter on "Cost Accounting" puts in simple language the principles for a small factory, but, unfortunately, does not give much clue to the complications which arise in the manufacture and distribution of the numerous articles covered by a small manufacturing chemist. On the other hand, we have the shop, which interests the majority of our readers. Often have we been called upon to give advice on the hundred and one difficulties in carrying on a successful business. There are many who start business on rudimentary knowledge, and acquire the means for success from experience. It is safe to say only a small percentage, who have gone through a varied course of assistantship in different varieties of business and applied their observation faculties to definite purpose, are able to make a success from the beginning of their career as proprietors. For those who start first and learn afterwards there are many helps; strange to say, most of them come from America. Thus, "How to Run a Shop," by Harold Whithead, Boston University, U.S.A. (published by George G. Harrap & Co., Ltd., 2 and 3 Portsmouth Street, London, W.C.2, at 10s. 6d. net), illustrates the effort to cater for the small proprietor. Written by a teacher in a college of business administration, it demonstrates quite clearly the various steps required to win success. Primarily for American readers, it is yet written in such a way that English readers can hope to benefit if they will apply the principles laid down. The analysis of turnover has been frequently dealt with in our pages, together with the relative values in financial returns according to stocks and display. Many pages might be written on display, and "Window Dressing" by G. L. Thimmins (Sir Isaac Pitman & Sons, Ltd., 2s. net), serves to emphasise the importance of display to a successful business. Though

approaching the subject from the general standpoint, it clearly demonstrates what display men call "pull." The question whether the single show or one containing dozens of lines is best is adequately dealt with; and from the illustrations it appears that one definite incisive display exercises on the mind a greater attraction than one given over to miscellaneous goods. True, the latter may look pretty as well as tasteful, but the acid test is the influence it has on the observer; and a single display has a tendency to exert an insistence on the mind. More and more chemists are appreciating the value of the part of the shop called the window; it is the main channel for display, and he who understands his business will not be long before he realises its worth. The need for display is, perhaps, not so important in the side streets as in the main thoroughfare, where a most valuable part of the trade is a passing one. In the side street the business man will often be able to get on a level with his *confrere* if he will only study the art of advertising in the Press which, after all, is another form of display. Here mail-order becomes an important factor, and "Mail Order Organisation," by P. E. Wilson (Sir Isaac Pitman & Sons, Ltd., 3s. 6d. net), will teach one where the pitfalls are and how to avoid them. Moreover, this method presents us with certain principles on which successful penetration of the homes of possible buyers can be made. It is a difficult art, as it calls for greater concentration both of the business man and his method of display. It is through the eye in the first instance, but in the second he must depend upon accurate and pleasing expression. It will be seen, then, that it calls for keen and clear thinking. If the main idea is success—and if not, surely no man would go into business—then the modern organisation of the shop calls for great and greater skill as competition increases. It means that success must be earned by using all the faculties (including, notably, observation and expression) to the fullest extent. Mediocrity may be content with selling only what clients come for, but he who would develop his business as well as himself will seek by all the art and science he possesses, or may cultivate, to induce customers to extend their purchases and secure their goodwill and return. Where a man is conscious of giving good service and supplying only the best articles, he is justified in being confident that he can convert mediocre businesses into paying propositions. And, after all, it is confidence based on knowledge linked up with good service which begets success.

Our Trade with India.—I.

THE "Conditions and Prospects of British Trade in India" are ably discussed in a report (dealt with on p. 318), which has been prepared by Mr. Thomas M. Ainscough, O.B.E., Senior Trade Commissioner in India and Ceylon, and issued from the Department of Overseas Trade. The review is a survey of the fiscal years 1919 to 1920, and 1920 to 1921 up to October. It is of exceptional worth to British traders not only because of the advice which is tendered in a style devoid of official circumlocution, but also because of the luminous account of how the trade slump came to the East. This, after all, is a reflection of the great trade decline in our own country, and it is well to take a wide survey in considering our own affairs, so that we may the better understand them. In the general review Mr. Ainscough points out that the period covered by the report is one of the most abnormal and interesting periods in the recent history of British trade in India. The present report covers the transitional stage when the course of trade was still influenced by the aftermath of the war, and when the new post-war forces were beginning to

assert themselves. The year 1919-20 was a year of phenomenal trade activity both in the United Kingdom and in India. As everyone knows, the trade boom gave rise to a fictitious prosperity. The end of the war found India with depleted stocks of foreign merchandise and with five years' arrears of purchases to make good. She had accumulated very considerable buying power, and huge orders were placed in the United States, Japan, the United Kingdom, and other countries. The economic depression of 1920-1921 hit India severely, as there came a complete cessation of the demand for Indian exports such as jute, cotton, hides, oilseeds, etc., and Indian importers, in the end, were unable to meet their financial obligations. In July 1921 there was an enormous number of repudiated and overdue bills in the hands of the banks. The greater portion of these may have been cleared before the end of the year. Home firms may well be doubtful whether the trade is worth carrying on if the Indian importer refuses to meet his bills when the market goes against him, and he is faced with a heavy loss. But, "after much study," says Mr. Ainscough, "I am convinced that if carefully conducted on sound lines and with responsible Indian firms the direct trade is a reasonably safe one, particularly in those cases where the home shipper has a resident representative in India to safeguard his interests. In the boom of 1919 and early 1920 credit facilities were given sometimes to Indian firms not of sufficient standing to warrant them. Moreover, the recent crisis is entirely abnormal. The trade as a whole should be judged by its results over a lengthy period of years. It will be a great pity both from the point of view of the shipper and of the importer if this trade receives too great a set-back through the action of certain unprincipled individuals." In striking a note of appeal to the many reliable Indian importers to use their influence with a view to the re-establishment of the Indian market in the eyes of the world, Mr. Ainscough adds the warning that British export houses will do well to exercise greater discrimination in the granting of credit, and will, wherever practicable, appoint resident representatives to watch their interests. With regard to actual trading, it at once appears that, in India, Great Britain has her greatest market, and, with judicious handling, India may at no distant date be of supreme importance to our export trade. Many of the Indian industries have stood the effects of the slump very well, and Mr. Ainscough considers that the newer ones will, after having adapted themselves to changing conditions, go forward to increased all-round prosperity. One of the first points touched upon in the report is the remarkable recovery made by the United Kingdom, whose share of the total trade with India is now 44 per cent., or 3 per cent. higher than the pre-war figure. The United Kingdom's share of Indian imports has increased from 46 per cent. in 1918-19 to 61 per cent. in 1920-21, and is now only 3 per cent. below 1913-14. Mr. Ainscough, while he shows that in no small measure this advance was due to abnormal conditions, among them being great accumulations of unabsorbed imports, derives considerable satisfaction from this near approach to pre-war conditions. He says it is discouraging that the United Kingdom is not able to take more of Indian exports of produce and manufactures, and points out that, apart from economic laws, there is a growing tendency all over the world for a country to purchase imports from those other countries which are the most important customers for its own produce, and he suggests that every effort should be made to stimulate imports of Indian produce.

Ammonium Sulphate Market

THE somewhat conservative attitude of the British Sulphate of Ammonia Federation as regards the regulation of prices for home use, as emphasised by their circular issued last week notifying an advance of 5s. per ton only for delivery up to the end of October—this making prices £16 8s. for neutral quality based on 25½ per cent. and £15 5s. for 25¼ per cent. quality—proved rather less than many were led to expect in view of the strong position of the product, not only in this country, but also in other producing countries. Home consumers had been apprehensive of the enforcement of a more important advance owing to the assumption of short-comings likely to be encountered in the late months of this year. At the current very reasonable cost, even as compared with pre-war times, and allowing for the considerably larger working outlay of makers, there should certainly be sufficient inducement for farmers to make full provision for their next season's requirements. This in fact, might be considered a wise policy on their part as the outlook as to a progressive recovery is very doubtful. In addition to this, the position of the industry across the Atlantic has been severely affected by the prolonged strikes, operations at coking plants having been seriously reduced. It therefore looks as if a shortage of sulphate of ammonia will probably have to be faced, which is rather expected to prevent America keeping her export trade going even on a limited scale within the next few months. This contingency would, of course, be all to the good of the British export trade, and thus favour the continuation of a very firm market. In our editorial columns of March 18 last we alluded to the inevitable retrograde movement in the price of Chilean nitrate due to the big accumulations of stocks in existence, and suggested that developments in that competitive fertiliser might influence the direction of prices for sulphate of ammonia. The position of nitrate is now improving, and efforts have been made as far as possible to protect the market, but its tendency seems still downwards, and it is obvious that the British Sulphate of Ammonia Federation have been guided thereby in their conservative policy, although the price of the Chilean fertiliser would have to drop appreciably further in order to divert the demand from sulphate of ammonia to the former. However, ample precautions have been taken to protect the sulphate of ammonia industry against this contingency. Last year's drastic cut in the price to home users to £13 per ton basis for ordinary 25½ per cent. quality had the effect of stimulating demand, as this price compared with £24, the Government-controlled price ruling earlier in that year, which was brought down to £18 10s. late in June. This constituted the last Government price prior to decontrol. From the relatively low price first mentioned above, stronger conditions became manifest under the poor home output, and the improved export outlet early this year, and this certainly justified upward adjustments in the price to the present level. The recent comparative absence of demand from France contrasts sharply with the very large quantities she drew from this country this year until towards the spring or prior to the levying by that country of an import tax of fr. 20 per 100 kilos. French agriculturists have complained bitterly of this tax, and it remains to be seen whether some alteration may not be made, considering that the French output of the product is very materially short of domestic needs, while coke-ovens there have also been much hampered in their operations by the setback at iron centres. Our exports to France were almost nil in June, and only amounted to 243 tons during last month, although the fact deserves notice that France still by far leads in her takings for the seven months to the end of July with 30,778 tons. For the first month of this year our total exports were as much as 16,854 tons, and the returns continued comparatively good for the next few months, but then dwindled a good deal, even in the case of Spain and the Canaries, whose takings for July

were only 1,826 tons, against 3,941 tons for the previous month. There is not much doubt that the export trade will develop again more freely in the near future, and in the meantime, the tendency of the export market has been distinctly firm, the f.o.b. rates now ranging from £17 to £17 10s. The July exports totalled 7,387 tons, compared with 6,510 tons for the same month last year, while the aggregate for the seven months represents 74,099 tons, against 77,338 tons for the corresponding period in 1921. The following figures (in tons) give a clear idea of the still very backward state of our export trade, compared with the pre-war year 1913:

	1913	1920	1921	1922
Total U. K. exports	323,054	109,630	128,433	74,099
Monthly average ..	26,921	9,136	10,703	10,586

It will be seen that the monthly average this year to the end of July, while still showing a fair excess against that for the whole of 1920, has fallen back to a little below last year's average, and is still a long way under that for the pre-war year 1913. While some recovery is looked for in the exports, this will depend to some extent on how far activity at coking plants can be restored over the remainder of this year, or on the supply that can be spared after meeting home needs. It is obviously too much to expect a return to pre-war export business for an indefinite period, unless production can be very fully restored to, and even developed beyond, what it used to be before the war, while the fact may be recalled that the bulk of the output then was despatched abroad as the home outlet was comparatively small.

Empire Patents

ALTHOUGH the report of the Conference on empire patents held at the Patent Office, from June 12 to June 23, on the question of instituting a system of granting patents which should be valid throughout the British Empire is of much interest, it is not very convincing, and one can hardly feel optimistic as to tangible results following the report. The details of schemes recommended were set out in our issue of August 19 (page 281), so we need not deal with them *seriatim* here. A paragraph of the highest importance in the report is the last one set out in the preferred scheme (page 12):—"The Conference further agreed that the successful working of such a scheme would also depend upon uniformity of law and practice throughout the British Empire. In particular, it would appear to be necessary to have an agreement on the definition of the word 'inventor,' and the rights of importers to obtain a patent. On both these points there was at present a divergence of practice between the United Kingdom and some of the Dominions." With this we cordially agree, and it appears certain that before anything can happen, some uniformity in the law and practice must be obtained. But how? Certainly not by a ten-day conference of which every member is a Patent Office official. We have had too many piecemeal (or peace-meal) conferences, which are usually barren of practical results. In the present case oral evidence from outside bodies was not admitted, although the members professed to know what the "feeling of the commercial community" is on the question of universal search. The result is that we have an interchange of views between officials only, lasting ten days. Surely, before any successful change is made a committee or commission composed of legal, technical and business men, as well as Government officials, will have to take evidence, examine the existing laws of practice, find out if and how they can be brought into unison, and then, with this information (which was not before the present Conference), see how far a scheme can be devised which will adapt itself to the possibilities and conclusions arrived at by careful investigation. The report is, as we said, interesting, but in the present semi-chaotic state of things, we do not see much in it that is likely to bring about definite results; it is unconvincing.

Drug Index

THE changes during the month have been very few, numbering thirty-one throughout the whole tariff and only three in the index drugs. They are lin. camphoræ, lin. saponis, and tinct. chlorof. et morph. '85. The fall is only sufficient to affect the index to the extent of 0.7, and is so small that it cannot be carried over into percentage depreciation. The fall in the general list of drugs and chemicals occurs mostly in the oils. In surgical dressings we have again to chronicle no change. The figures to date are:

DRUGS (1913=100)

	1916	1917	1918	1919	1920	1921	1922
Jan. ..	263.3	198.8	207.6	232.9	315.2	239.0	182.0
Feb. ..	262.8	191.1	212.5	230.6	324.3	226.0	178.0
Mar. ..	264.5	185.0	215.2	216.2	336.4	215.8	171.3
April ..	266.1	183.5	216.5	207.0	345.8	212.8	170.4
May ..	265.3	188.1	224.6	196.0	344.6	209.7	169.8
June ..	270.4	191.3	221.8	200.9	362.7	207.5	161.2
July ..	259.4	193.9	217.0	202.3	341.4	200.4	158.9
Aug. ..	227.5	198.7	217.8	205.2	322.5	193.2	158.2
Sept. ..	210.2	201.7	219.7	213.9	334.6	188.1	—
Oct. ..	204.6	202.5	227.5	216.2	289.6	186.8	—
Nov. ..	202.5	203.0	242.4	216.4	268.2	188.9	—
Dec. ..	198.4	204.6	236.6	218.0	258.2	188.2	—

DRESSINGS (1913=100)

Jan. ..	133.0	202.0	390.5	478.4	390.2	268.8	214.6
Feb. ..	133.0	203.0	438.1	390.0	357.6	250.6	214.6
Mar. ..	140.0	205.0	438.1	276.2	405.8	250.6	209.0
April ..	141.3	204.5	483.1	286.8	400.4	256.6	203.4
May ..	153.0	274.0	483.1	268.8	402.4	256.8	201.2
June ..	153.0	240.0	483.1	268.8	408.2	256.2	197.4
July ..	160.0	264.8	483.1	231.3	445.2	244.4	197.4
Aug. ..	153.0	273.5	495.0	253.3	445.2	230.6	197.4
Sept. ..	153.0	291.3	501.7	270.1	406.6	230.6	—
Oct. ..	172.2	291.3	511.2	292.9	374.2	230.6	—
Nov. ..	191.5	316.5	513.3	308.7	365.2	230.6	—
Dec. ..	201.5	316.5	513.3	333.7	320.6	230.6	—

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration see "The Chemist and Druggist Diary," 1922, p. 277.

(From the "Trade-marks Journal," July 5, 1922.)

- "TOP HOLE BRAND." with golf picture, "Top Hole" (disclaimed); for beverage preparations (42). "G. O." with picture of Greenwich Observatory ("G. O." disclaimed); for beverage preparations, etc. (42). By The Greenwich Lemonade Co., 11 John Penn Street, Lewisham, London, S.E. 13. 425,290; 424,363. (Associated.)
- "IPANA," with name of applicants on panel-shape device; for tooth pastes, powders and mouth washes (43). By Bristol-Myers Co., 40 Rector Street, Manhattan, New York, U.S.A. 421,611.
- "APREBARBIE," on conventional frame device; for a skin preparation (43). By P. Simon, 9 Bennett Street, Fitzroy Square, London, W. 1. 424,778.
- "PALMOSA"; for perfumery, etc. (43). By F. W. Hampshire & Co., Ltd., Silkmill Lane, Derby. 425,658.
- "LA CIGALE"; for perfumery, etc. (43). By P. P. Mühlhens, Glockengasse 26, Köln am Rhein, Germany. 425,710.

(From "The Trade-marks Journal," July 12, 1922.)

- "JASCO"; for all goods (1). By J. A. Stemp, Cornwall Building, Cornwall Street, Birmingham. 425,551.
- "GERMISAN," on circular device of skull and wheat ears; for chemicals for combating plant diseases (2). "GERMISAN"; for agricultural chemicals (2). By Saccharin-Fabrik Aktiengesellschaft vormals Fahlberg List & Co., Alt Salbke 49, Magdeburg-Ost, Germany. 422,005/6. (Associated.)
- "KALSIETTE"; for chemicals (2). By McDougall & Yalding, Ltd., nr. Hampstead Lane, Yalding Kent. 424,232.
- "PERVET"; for all goods (2). By Nora F. Perry, 51 High Street, Newport, Mon. 425,653.
- "SEA FOAM" and "SEA BREEZE"; for disinfectant soap (2). By J. Crosfield & Sons, Ltd., Bank Quay, Warrington. 425,687/693. (Associated.)

British Trade in India

IN the Department of Overseas Trade report, referred to in a leading article on p. 315, it is stated that the pre-war import trade of India from the United Kingdom for 1913-14 was 64 per cent. of the total. In 1920-21 it had reached 61 per cent.; the preceding two years the figures were 46 and 51 per cent. respectively. Exports to the United Kingdom, including re-exports, were as follows: 1913-14, 24 per cent.; 1918-19, 28 per cent.; 1919-20, 30 per cent.; 1920-21, 22 per cent. The penultimate year was, as is of course well known, a record year. Under agricultural development it is stated, with regard to oil seeds, that:

The total quantity of oil seeds exported during the year 1919-20 was 825,000 tons, valued at Rs. 26.27 lakhs. In addition to this, the exports of copra amounted to 10,600 tons, as against 450 tons in 1918-19. India is one of the largest of the world's sources of supply of oil seeds. The output of the raw product was until recently far short of the world's demands, and the high prices acted as an incentive to increased production of the various kinds. The production of minerals includes saltpetre, in which there was a decided fall in production, due chiefly to a decrease of 41 per cent. in the production of the United Provinces. The total Indian production amounted to 17,550 tons, valued at £471,247.

The growing importance of the resin and turpentine industries is shown in a long statement on the various phases of production, and concludes with the paragraph:

The possibilities of development of the Indian pine-resin industry are considerable. The average annual consumption in India during the financial years 1907-8 to 1918-19 was, of resin 89,119 maunds (27.22 maunds=1 ton), and of turpentine (including turpentine substitutes) 245,729 gallons. The following table gives the quantities of turpentine imported and the Indian output during the war years:—

Years	Imported	Indian Output	Total
	Gallons.	Gallons.	Gallons.
1913-14 ..	193,937	58,803	252,740
1914-15 ..	142,438	78,489	220,927
1915-16 ..	86,700	111,835	198,535
1916-17 ..	80,000	125,663	205,663
1917-18 ..	140,772	136,052	276,824

Recent expert estimates place Indian production at 300,000 maunds of resin and 800,000 gallons of turpentine a year ten years hence, and ultimately at double those figures—that is, 400,000 cwt of resin and 120,000 cwt. of turpentine a year.

The lac and shellac industry is the subject of an appendix (IV.) which gives an excellent account of the conditions and prospects of these articles. The Indian Institute of Science, Bangalore, appears to be at the beginning of a new and unique period of usefulness, although much is shown already to have been accomplished. The Drugs Manufacture Committee is, of course, a much more recent institution, but has also done a lot of good work, particularly with regard to medicinal plants. From the report of the Government cinchona plantations in Bengal, *ipecauanha* and *digitalis* are successfully grown. *Lycopodium* occurs naturally on the plantations, and has been collected and sold. Difficulty has been experienced, however, in growing *chenopodium* and *belladonna*. Chemicals and chemical preparations constitute a large section, which may be considered in greater detail.

Total Value of Chemicals Imported

	1913-14 (pre-war)	1918-19	1919-20
	Per cent.	Per cent.	Per cent.
United Kingdom ..	74.7	63.2	75.8
Japan ..	1.5	24.3	11.9
Italy ..	5.2	1.2	2.0
United States ..	0.3	5.7	6.6
Germany ..	12.4	—	—
Other Countries ..	5.9	5.6	3.7

The total imports referred to in the previous column are as follows: 1913-19, £1,661,710; 1919-20, £1,610,503; 1920-21, £2,661,346. The United Kingdom has regained the pre-eminent position she occupied before the war.

Were the detailed figures for 1920-21 available they would probably show a still further improvement in the British position. The principal items may be examined separately: *Acids*.—Total imports, 1919-20, £36,521; 1920-21, £146,157. The principal item is tartaric acid, of which the United Kingdom supplies 70 per cent., and the balance is drawn from Italy and France. Practically all the nitric, sulphuric, and carbolic acid is obtained from Great Britain. The imports of sulphuric acid have tended to decline owing to the increased manufacture in the country from sulphur imported from Sicily and Japan. *Bleaching materials*.—During the war bleaching powder was mainly imported from Japan. The United Kingdom now supplies £105,000 out of a total of £133,000. *Soda compounds*.—Nearly 50 per cent. consist of sodium carbonate. The United Kingdom has the virtual monopoly of this trade. The imports in 1920-21 were £411,910. *Sulphur*.—The imports were £157,532 in 1919-20 and £224,833 in 1920-21; 80 per cent. from Japan and 13 per cent. from Italy. *Potassium compounds*.—Total imports in 1919-20, £31,357; 1920-21, £75,074. The United Kingdom supplies approximately 50 per cent., the balance being fairly evenly divided between Japan, Italy, and Sweden. *Disinfectants*.—India is an important market, and the trade is strongly held by the United Kingdom. The small trade in naphthalene disinfectants (£9,000 in 1919-20) is fairly equally divided between the United Kingdom and Japan, but in the ordinary kinds, valued at £67,000, the British share was £66,000.

With regard to dyes, aniline dyes are the most important, India being the largest overseas market for anilines and alizarines. The soap trade has hitherto almost always been exclusively British.

Trade in drugs and medicines (excluding chemicals and narcotics) is a valuable one, and has recently increased considerably, as seen from the following table:—

	1918-19	1919-20	1920-21
	£	£	£
Camphor	115,068	246,503	267,749
Cassia lignea	84,806	165,186	128,639
Cinchona bark	96	147	252
Morphia and preparations of opium and morphia ..	—	4,196	6,950
Proprietary and patent medicines	163,376	304,880	281,177
Quinine salts	155,088	233,227	354,186
Other sorts	459,528	870,825	1,073,876

Seventy-two per cent. of the camphor comes from Japan (or rather Formosa). Severe competition is met with in the trade in quinine salts (of which quinine sulphate or bisulphate is the most important). Java supplies 45 per cent., the United Kingdom 40 per cent., America 6 per cent., and Japan 6 per cent. In proprietary and patent medicines competition is becoming very keen, and both America and Japan have made great progress during the war. The United Kingdom still provides 56 per cent. of the imports, but the American share is now 24 per cent., that of Japan 8 per cent., and France 7 per cent. The general drug-trade is also becoming much more competitive. The share of the United Kingdom in "drugs, other sorts," is 55 per cent., America 15 per cent., Japan 7 per cent., and France 3 per cent. The balance is made up by the import of native drugs from sources such as the Straits, Hong Kong, and Portuguese East Africa. In high-grade preparations the United States is becoming a keen rival, while Japan is strengthening her hold on the cheaper drugs and patent medicines. Of the total imports in 1919-20, the United Kingdom supplied 42 per cent., the United States 12 per cent., Japan 12 per cent., Java 6 per cent., France 3 per cent. The remainder was non-competitive.

Under instruments and apparatus is found the following total imports:

	1918-19	1919-20	1920-21
	£	£	£
Optical (A)	36,967	74,235	171,186
Photographic (B)	156,955	114,690	295,048
Scientific and philosophical (C) ..	117,370	209,466	439,044
Surgical (D)	67,603	127,623	241,017

British manufacturers are first in Class (B), (C) and (D), and the United States in Class (A). In these classes the United States is evidently an increasingly formidable competitor. Japan has a long start in the glass-bottle trade. Demand in toilet requisites is considerable. The value of imports in 1918-19 and 1920-21 was as follows: United Kingdom, £109,348 and £162,841; United States, £77,618 and £125,804; Japan, £68,275 and £99,450. The United Kingdom, the report states, is rapidly losing this trade to her two principal rivals. The following gives the essential-oil imports:

Country of Origin	1918-19	1919-20	1920-21
United Kingdom	£13,345	£16,513	Details not available.
Ceylon	3,132	9,228	
France	9,500	16,344	
Japan	3,331	18,438	

The investigation of the fiscal policy best suited to India has been referred to a Commission, by the Government of India, which will tour India during the cold weather. (It was to commence in the first half of November.) It is suggested in the report that United Kingdom Trade Associations and Chambers of Commerce who might wish to place their point of view before the Commission should prepare their case and arrange for its presentation.

Roumanian Petroleum

By C. A. Cofman-Nicoresii, B-es-Lett. et Sc.

(Concluded from the C. & D., August 19, p. 291.)

The hydrocarbons not absorbed by sulphuric acid in the proportion of 44 per cent. to 79 per cent. belong to the methane and naphthene series. The following have been identified as belonging to the open-chain paraffins: Butane, pentane, hexane, and heptane; also isopentane, isohexane, and isoheptane. Among the closed-chain hydrocarbons have been definitely identified: Pentamethylene, methylpentamethylene, dimethylpentamethylene, and ethylpentamethylene. The hydrocarbons absorbed by sulphuric acid in proportion of 21 per cent. to 56 per cent. belong to the aromatic series, also camphenes, terpenes, sulphur, and nitrogen compounds, and petroleum acids in small quantities. Aromatic hydrocarbons which have been identified are: Benzol, toluol, xylol, trimethylbenzol, and isomers (mesitylene and pseudocumene). If the oil is exposed for some time to air and light it invariably contains terpenes. Hell and Medinger have proved the existence of naphthenic acid and other oxygenated bodies. When the oil is treated with mercuric salts, and the mercury precipitated by sulphuretted hydrogen, an unpleasant-smelling oil is obtained containing sulphur, and giving a reaction, with nitrites very similar to thiophens.

A comparison between oils from different parts of the world shows that—

American oil consists mostly of hydrocarbons of the methane series and their isomers, ethylene series and a very small proportion of aromatic hydrocarbons.

Russian oil consists mostly of the naphthene series, with a somewhat larger proportion of aromatic bodies.

Roumanian oil and Galician are composed of almost equal quantities of methane and aromatic hydrocarbons, with a small proportion of naphthenic acids.

The Java, Borneo oil consists almost entirely of aromatic hydrocarbons.

Examining the above comparison of the chemical composition of these oils, it is found that they serve different commercial purposes according to their composition. While American oils yield very light benzine, the Roumanian benzine distilling completely over at 130° C. gives a very fine motor oil. The Borneo oil is unfit for lighting on account of the aromatic hydrocarbons containing a high percentage of carbon which causes too much smoke. Russian oil containing very little paraffin, low degree of inflammability, and not congealing, is extremely suitable for lubricants.

The crude oil is transferred by pipe-lines and tank wagons to the numerous refineries, of which there are about fifty to sixty in Roumania, and submitted to various processes of distillation and cracking. The chief products obtained are:

Crude benzine, 38-47 per cent., distilling up to 150° C.

Lighting oil, 35 per cent., distilling between 150° and 300° C. (Residue, 20 per cent.)

The crude benzine is rectified in closed vessels, provided with dephlegmators, by means of superheated steam, at a temperature of 250° C., and this yields:

Light benzine, sp. gr. 0.720, 39 per cent.

Heavy benzine, sp. gr. 0.760, 8 per cent.

Benzine residue, sp. gr. 0.790, 51 per cent., inflammable at 24°-27° C.

(Loss, 2 per cent.)

The lamp oil obtained above 150° C. is refined by means of sulphuric acid sp. gr. 1.5. It is usually colourless, with an ethereal odour, sp. gr. 0.800-0.820. Its viscosity at 20° C. is between 0.98 and 1.04, and it is less inflammable than the American lamp oil. The residue is mostly used for fuel, especially in factories, railways, and in running steamers. When submitted to cracking, lamp oil and tar are obtained, the latter being used in the dye industry. Further distillation *in vacuo*, by superheated steam, on dehydration will yield lubricating oils, paraffin, and tar. Submitting the crude paraffin to refrigeration, paraffin scales are obtained. These scales are then put under a pressure of about 35 atmospheres, and afterwards melted at a temperature of 50° C., and treated with 10 to 12 per cent. of sulphuric acid, followed by 1 per cent. soda and about 7 per cent. of fullers' earth, to get a complete bleaching. When moulded, the setting-point is about 46°-50° C.

In regard to transport, Roumania is very favourably situated. There is an extensive system of pipe-lines connecting the petroleum works with the Danube and Black Sea. There are three up-to-date oil docks and reservoirs on the Danube: at Giurgiu, Braila, and Galatz, and one at Constantza on the Black Sea. The distance from Constantza to London is about 5,600 kilometres by sea. The cost of transport is actually a third of the cost of importing American oil, and a quarter of the cost of the transport of Russian oil. The chief customer for Roumanian oil is France, and England is next in importance.

Summer Outings

A River Trip to Weybridge

THE staff of Boots, Ltd., from Territory 16, went for a river trip on the Thames on August 16, when nearly fifty members and friends were present. The party was conducted by Mr. Simpson, of the Croydon branch, to Hampton Court, where a motor-launch was in readiness for the journey to Weybridge. Tea was served at the Lincoln Arms Hotel, and a vote of thanks was accorded to Mr. Simpson for his work as organiser.

A Visit to Pears' Works

ON August 17 the West Ham Association of Pharmacists, on the invitation of A. & F. Pears, Ltd., paid a visit to the works at Isleworth. The party (numbering over eighty) were conveyed by three charabancs from Stratford. Mr. Lyon (London representative) formed one of the company. A halt was made at the offices in New Oxford Street, where Mr. Sedgwick (sales manager) and Mr. Sanderson (secretary) joined the party. On arriving at Isleworth the visitors were received by Mr. Pears and Mr. Booth (managing directors), and were then conducted over the works in groups of about twelve. At the close of the tour of the works, which occupied over two hours, the party had tea at the canteen. During the repast Mr. C. Andrews Pratt (President) announced that through the courtesy of Messrs. Pears they took that opportunity of presenting a wedding present to Mr. and Mrs. Soper, which had been subscribed for by the members of the Association. Mrs. Pratt, in a few appropriate words, made the presentation, which consisted of a handsome timepiece with chimes.

A Report on Myrobalans

ALONG with the report on cinchona bark, reviewed in last week's CHEMIST AND DRUGGIST (p. 292), the Imperial Institute Committee for India has issued the results of their investigation of the trade in myrobalans, the dried fruits of various species of *Terminalia*, which are largely used in the tanning industry. Myrobalans, it may be observed, are now official in the British Pharmacopœia. The report states that the myrobalans of commerce consist principally of chebule or black myrobalans, *T. chebula*, and is entirely an Indian product. During the four years previous to the war (1910-11 to 1913-14) the exports averaged in weight about 1,400,000 cwt., and in value nearly £400,000. From 40 to 50 per cent. of the pre-war exports were dispatched to other parts of the British Empire—almost entirely to the United Kingdom. In recent years the amount reaching this country have varied from about 500,000 cwt. to over 800,000 cwt. *Terminalia chebula* is a large or small deciduous tree found throughout India and Burma, chiefly in deciduous forests, but occasionally in rather moist forests. It is said that there are six varieties, and the fruits vary greatly in size and degree of angularity. The supplies of myrobalans are derived from forests belonging to the Government of India, or to Native States, and from privately owned forests, but no data are available to show the proportions of the total crop from these three sources. The method whereby each season's crop is obtained is described in detail. Briefly, the bulk of the contracts is secured by a combination which has its own standards of the leading qualities, and these, it is stated, have been more than once objected to as being too low. There are five principal varieties of myrobalans in commerce and usually two grades of each variety. The varieties are named after the districts in India from which the fruits are obtained: "Bimlies" or "B's" from Bimlipatam, in Madras; "Jubbelpores" or "J's" from the Central Provinces; "Rajpores" or "R's" from the Kohlapur State; "Vingoolas" or "V's" from the Bombay forests and "Coast Madras." Each is separated in Nos. 1 and 2 grades. The most suitable time for collection has been evidently difficult to establish, as the best results are not invariably obtained from the material richest in tannin. Myrobalans are not always used for the same purpose in tanning, and a high percentage of tannin may not be accompanied by the other qualities required. The composition of the fruits was investigated with regard to the percentage of tannin, weight-giving properties, bloom-yielding capacities, and for the development of acidity in the liquors; and the uses of myrobalans to British tanners and dyers are given in detail. It appears that myrobalans as a tanning agent gives the most useful results when blended with other materials. Crushed nuts might appeal more to the trade were their preparation improved. The suggestions of the committee with respect to the future trade in myrobalans refer to collection, grading, form for exporting, and future markets. It is not considered possible to alter the present method of collection, but better storage accommodation might improve the condition of the nuts. The grading also could be improved. It would be preferable, says the report, if myrobalans were sold on a unit-tannin basis controlled by colour determination. The committee considered that it would be an advantage if a regular supply of crushed material could be maintained under organised supervision. The increased usage of crushed nuts would be promoted if sold on the basis of an analysis made in the United Kingdom. If the stones were removed on a large scale the kernels might be used as a source of oil. These contain from 36 to 37 per cent. of a non-drying oil. With regard to future markets, Australia and South Africa might be found suitable fields for investigation. The committee also suggested that the fruits of the various species should be examined with regard to the amount of tannin contained, and the Forest Botanist proposes to start work on the subject as soon as possible. Statistical data in regard to exports and United Kingdom trade are given in tabular form at the end of the report.

Essential Oil Imports

April 1—June 30, 1922

THE following table gives the imports of essential oils for the second quarter of the year. Imports during the first quarter were detailed in the *C. & D.*, 1922, I., p. 533. Arrivals of Ceylon citronella oil have been practically all disposed of. Star anise oil does not figure among the arrivals, but 350 cases have arrived recently, and stocks are ample at the present rate of demand. Lemon oil is again a large item, and Sicilian orange oil appears to have been coming in better again. Undescribed essential oils are not included.

OIL	QUANTITY (OR VALUE)	SOURCE
Almond, bitter ..	32 cases	France.
Bay	26 packages	West Indies.
Bergamot	163 cases	Italy.
Birch, sweet	7 cases	U.S.
" tar	1 case	Germany.
Bois de rose	1 case	France.
Caraway	27 cases	Holland.
Cajuput	17 cases	Holland.
"	21 cases	Java.
Camphor	185 drums	China.
Cananga	2 drums	Java.
"	2 drums	Holland.
Cassia	334 cases	China.
"	1 case	Holland.
"	2 cases	Germany.
Cedarwood	20 cases	U.S.
Cinnamon leaf ..	36 cases, 36 casks, 9 drums	Ceylon.
"	20 drums	Seychelles Is.
"	13 drums	Brit. India.
Cinnamon leaf and clove	45 cases	Brit. India.
"	2½ cases	France.
Citronella	78 drums	Ceylon.
"	11 brls., 89 crates	Brit. India.
"	61 drums	Java.
Cloves	13 cases	France.
"	18 cases	Brit. India.
"	4 cases	Germany.
Clove leaf	1 case	Seychelles.
Dill	2 cases	Germany.
Dill & peppermint	3 cases	Germany.
Eucalyptus	291 cases	Australia.
Geranium	17 drums	France.
"	1½ cases	"
"	1 drum	Réunion.
Juniper berry ..	1 cask	Czecho-Slov.
"	12 cases	Germany.
Lavender	17 cases, 6 tins, 5 drums, 1 pkg.	France.
Lemon	10 × 4 cases; 1,780 cases	Italy.
"	20 drums	U.S.
"	25 cases	Germany.
"	1 case	France.
Lemongrass	13 drums, 6 cases	Brit. India.
"	3 drums	Guatemala.
Lime	48 packages, 295½ cases, 38 drums	West Indies.
Linaloe	29 cases	U.S.
Mandarin	6 cases	Italy.
Mint	245 cases	Japan.
Nutmeg	10 cases	U.S.
Orange	205 cases	Italy.
"	36 cases	West Indies.
"	46 cases	Canada.
"	10 cases	Spain.
Patchouli	1 case	Germany.
"	8 boxes	China.
"	5 cases	France.
Pennyroyal	5 drums	Spain.
Peppermint	40 cases	Canada.
"	74 cases	France.
"	25 cases	Germany.
"	2 cases	Holland.
"	20 cases	Italy.
"	377 cases	U.S.
Petitgrain	2 cases	Germany.
"	2 cases	Paraguay.
Rose	3 cases	France.
"	£2,200	Bulgaria.
"	£124	Holland.
"	1 case	U.S.
Rosemary	27 drums, 2 cases, 5 casks	Spain.
"	2 pkgs., 1 case	France.
Sage	3 drums	Spain.
Sandalwood	343 cases	Brit. India.
"	10 cases	W. Australia.
"	10 cases	West Indies.
Sassafras	9 cases	U.S.
Spike	13 cases, 3 cases	Spain.
Thyme	2 cases	Spain.
Violet	2 part cases	France.
Wormseed	14 cases	U.S.

Trade Report

Prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, August 24

There is little activity in the chemical and drug markets this week, as the holiday season is now at its height, and the chaos in the European exchanges precludes any attempt at serious business. No reliance can be placed on German quotations, and even firms who have German agencies find it difficult to get the goods, exporters being unwilling to ship at a loss, caused by the fall of the paper mark, which on Wednesday touched 6,600 to the pound sterling, or the equivalent of 28 to a penny. The two outstanding features of the week include a good business in Japanese mint oil at a further advance. American oil, on the other hand, is quiet, with prices maintained. Menthol is firmer. Agar-agar is very scarce and dearer. Cumin and caraway seeds show a further advance; fenugreek is firm. Citric and tartaric acids are easier. Mercury is rather dearer. Bromides, amidopyrin, barbitone, safron, and hydroquinone have moved in favour of buyers. TN orange shellac is 5s. to 10s. cheaper; linseed and turpentine oils are lower.

Higher	Firmer	Easier	Lower
Agar-agar Caraway seed Castor oil Chamomiles Cumin seed Mercury Mint oil (Jp.)	Menthol Steadier Benzols Palm oil	Acid oils Ammon. chloride Bromides Cinnamon-leaf oil (Cey.) Citric acid Groundnut oil Pepper (c.i.f.) Petroleum jellies Pimento Sal ammoniac Sodium chlorate Sulphonal Tartaric acid	Amidopyrin Barbitone Copaiba (Para) Cottonseed oil Cream of tartar Hexamine Hydroquinone Juniper-berry oil Linseed oil Mustard seed Saffron Shellac Sodium salicylate Turpentine

Crude Drugs, etc.

AGAR-AGAR has become very scarce on the spot, and it is difficult to hear of offers. Small sales have been made at from 4s. 4½d. to 5s. per lb. for No. 1 Kobe, but it is reported that there are now only three bales left in first hand. Very high prices are quoted for new crop.

ANTIMONY.—A fairly large quantity of regulus lately came in from China, and c.i.f. terms are about £23 per ton. Business is quiet, but the supply of English ordinary is restricted, prices being £27 to £29 10s., according to quantity. Crude is available at around £15 ex warehouse, and £14 15s. c.i.f. for August-September shipment.

BELLADONNA LEAVES.—Foreign of 1922 crop are offered at 32s. 9d., and 1921 crop at 17s. 7d. per cwt. f.o.b. Hamburg.

BURDOCK ROOT is very quiet at steady rates, prime-cut Belgian, offering at £77 10s. per ton c.i.f. London, in round lots.

CADMIUM is steady, with a fair demand on the basis of 5s. 6d. to 6s. per lb.

CAMPOR (CRUDE) is unchanged at 3s. 4d. per lb., and August-September shipment is 2s. 11d. c.i.f.

CAMPOR (REFINED).—Japanese 2½-lb. slabs are quiet at 3s. 6d. per lb. on the spot, and for August-September shipment 3s. 4d. c.i.f. is quoted; ¼-oz. tablets can be had at 4s. 5d., and flowers at 3s. 11d. per lb.

CHAMOMILES.—Since last week the market has gained further strength, and new Belgian flowers of first picking are now quoted at from 300s. to 325s. per cwt. to come forward. Samples of the crop have arrived in London, but, owing to the inclement weather, the quality is not so fine as it should be. It is anticipated that the

quantity available will be considerably larger than last year, but not quite up to a normal crop. On the other hand, the new French crop is very small and prices are high, opening at 375s. per cwt., but the quality is extremely good.

CHLOROPHYLL.—Sales on sample have been made at 15s. per lb.

COD-LIVER OIL.—Our Bergen correspondent writes on August 21: Confirming my last report of August 14, the cod-liver oil market continues dull, with sellers of finest non-freezing at unchanged prices of 100s. to 102s. per barrel, c.i.f. London.

COPAIBA.—Good cleared Para is offered at the cheaper rate of 1s. 4d. to 1s. 5d. per lb.

GENTIAN remains fairly cheap, red French whole offering at 35s. per cwt. c.i.f. London for round quantities.

HEN VOLK continues quiet, Chinese (1½ per cent. boric acid) offering at 102s. 6d. per cwt. on the spot, at 95s. afloat, and at 85s. c.i.f. for September-October shipment. Dried volk is 6d. to 6½d., sprayed whole egg 8d., and native dried whole, 6d. Prime Chinese hen albumen is 3s. 2d. spot, and August-September shipment 2s. 11d. per lb. c.i.f.

HONEY is plentiful, with prices easy and in buyers' favour. Jamaica is neglected, with good white offering up to 65s., with manufacturing qualities down to 32s. 6d., in barrels. Good pale Cuban can be had at 65s. down to 35s. for dull set amber.

MENTHOL is rather firmer with small spot sales of Kobayashi-Suzuki at 24s. 6d. to 25s. per lb. To arrive, August-September shipment has been sold at 23s. c.i.f.

MERCURY.—The demand is not quite so active as last week, but supplies in dealers' hands are steadily shrinking, and this makes for well-sustained strength, the lowest figure at which business might still be possible being £11 15s., while sellers are generally asking £12 per bottle. The demand continues to be largely for export to the Far East, including the British Colonies, whose orders are usually filled through London. The business done for Continental consumption appears now to be arranged direct with the Spanish and Italian mines, which, so far as can be gathered, have now no recognised selling agents at this end. America appears to be making further importations quietly from Italy, the expectation of the enforcement of a stiff import duty being an incentive for this policy.

OPIMUM.—The London market is steady, the spot value of Turkey druggists' opium being 1s. 1d. per unit, and to arrive from 12s. to 12s. 3d. per lb. c.i.f. is quoted.

CONSTANTINOPLE, August 8.—During the first fortnight of August the following arrivals took place: Druggists', 812 cases; "softs," 262 cases; malata 33 cases. The stock for the same period was 254, 93, and 12 cases respectively. The sales on the Constantinople market increased to 83 cases druggists' at 1,010 to 1,125 piastres per oke, and 9 cases "softs," at 1,300 to 1,400 piastres per oke. At Smyrna there were sold 150 cases at about the same price. New crop has, however, been bought at considerable differences in price, based on the percentage of morphine. Purchases intended for Europe and Japan continue to be made on our market. The price of the drug is likely to be maintained, although the crop gives fully the estimated quantity of 2,500 to 3,000 cases. We ought, however, particularly to mention that repeated analysis of new opium has convinced us of its low percentage of morphine, and to fill the orders opium will have to be bought, testing 9 to 10 per cent., at the same price as the old material, which had a higher percentage. As conditions are in these days, the producer who for the reason mentioned above, does not obtain for his new opium the old rate, is not anxious to sell his crop at a price which does not cover freight, and he will certainly sell only at the price he has fixed.

NUX VOMICA is without interest now that the old crops are finished, and there is likely to be no revival until the new drug is offered in January-February.

SAFFRON.—There is practically no demand for the finest grades Valencia owing to the high prices asked. Spot offers range from 110s. per lb., upwards.

SENEGAL remains firm with spot sellers at from 4s. to 4s. 3d. per lb. Goods near at hand are quoted at 3s. 11d. to 4s. c.i.f., and September shipment at about 3s. 8d. to 3s. 9d. c.i.f.

SHELLAC.—The continued indifferent demand from consumers and the disinclination to lend speculative support under the unsettled conditions in the primary market have kept the trend of values weak. How far this may become accentuated is somewhat problematical. In the meantime, current arrivals have been more than ample to meet the more restricted outgoings. The spot value of usual standard TN orange quality is 10s. cheaper at 320s.; fine second orange is 380s. to 390s.; superfine, 420s. to 470s.; RLL, 420s.; AC cakey, 330s.; and GAL, 305s. Futures have been inactive, the value of August and October delivery being 290s.; December has been done at 280s. and value.

STARCH PRODUCTS.—Japanese farina is quiet at 22s. 6d. per cwt. c.i.f. for October-December shipment, and Dutch is 26s. 6d. per cwt. on the spot. English rice starch crystals are £44. and Continental £33 10s. per ton. American maize starch powder is 15s. per cwt.

TONKA BEANS.—Good frosted Angosturas have been practically all bought up on the spot. Broken bulk is offered at 6s. 9d. per lb. in small lots; good black Para are 1s. 9d. to 1s. 11d.; and frosted Surinams are quoted at about 2s. 6d. per lb.

Seeds, Spices, etc.

ARROWROOT is scarce. Fair to good manufacturing St. Vincent is quoted at from 5d. to 5½d., and grocery 5½d. to 7½d. per lb.

CASSIA LIGNEA is quiet, with selected offering at 45s. per cwt. and broken at 33s. on the spot.

CLOVES.—Zanzibar are quiet, with spot sellers at 1s. 3d. per lb. New crop to arrive for October-December shipment has been sold at 7½d. per lb. c.i.f. and sellers.

COCONUT (DESICCATED) is quiet, with sales at 34s. per cwt. for fine and medium Ceylon on the spot. For afloat 33s. c.i.f. has been paid, and August-October shipment is 33s. 6d. c.i.f.

GINGER is quiet, with Cochin washed rough offering at 55s. to 57s. 6d., and wormy 45s. to 47s. 6d. Japanese is 44s., and Jamaica 185s. to 210s. for small to bold.

PEPPER continues quiet, with fair black Singapore offering on spot at 4d. per lb. August-October and September-November shipments are quoted at 3½d. per lb. c.i.f. basis fair. Fair Tellicherry is 4½d. on the spot, Aleppy 4½d., and Lampong 4½d. on the spot. White Muntok is 7d. August-October and September-November shipment is 6½d. c.i.f., d.w. White Singapore is 6½d. on the spot and 6d. c.i.f., d.w., for September-November shipment.

PIMENTO is dull at 2d. per lb. on the spot.

SEEDS.—The following are current spot quotations: Spanish ANISE is not now available on the spot. Russian is 71s., and Black Sea 67s. per cwt. CANARY SEED is inactive. Mazagan is quoted at 92s. 6d. per quarter, Larache at 73s. 6d., and Spanish at 110s. CARAWAY SEED.—Dutch is very scarce and dearer at 90s. to 95s. per cwt. Morocco is also higher at 75s. for sound. CORIANDER SEED is firm. Sound is 35s. per cwt.; wormy is obtainable at from 12s. to 20s. as to quality. CUMIN SEED is very scarce. Maltese is 115s. per cwt., good Morocco 105s., and inferior 95s. DILL SEED is 25s. per cwt. FENNEL SEED is 57s. 6d. per cwt. LINSEED.—Moroccan is quoted at 23s. c.i.f. London. Manchurian HEMP SEED is 14s. 6d. per cwt. MUSTARD SEED is 30s. to 35s. per cwt. for good English yellow. Sound FENUGREEK SEED is scarce at 20s. per cwt.

Essential Oils

The demand appears to have quietened down again this week, except in the case of Japanese mint oil, which has been very active, and prices are, in consequence, higher. Cassia oil has again advanced; Ceylon cinnamon leaf is easier for shipment, and juniper-berry oil is lower. Palmarosa and gingergrass are attracting some attention. American peppermint oil is stationary, and no sales appear to have been made, as yet, at the higher prices.

AJOWAN.—The first small consignment of ajowan-seed oil has reached London, and offers for shipment are being made on the basis of 8s. to 8s. 6d. per lb. c.i.f., according to quantity.

ALMOND.—Genuine essential s.a.p. has been selling at 17s. per lb. on the spot.

ANISE (STAR).—"Red-Ship" is dull and unchanged at 2s. 3d. per lb. on the spot. Shipment prices are from 2s. 3d. c.i.f. and upwards.

BERGAMOT is unchanged for 37 to 39 l.a. at 14s. to 14s. 6d. per lb. on the spot, and from 13s. 6d. to 14s. c.i.f. to arrive.

BOIS DE ROSE (FEMELLE).—Offers for shipment from France are made at 9s. 6d. per lb. c.i.f. Spot is quoted at from 10s. to 10s. 6d. The low prices obtained have had a curtailing effect on production.

CASSIA is dearer on the spot at 5s. per lb. for 80 to 85 c.a. The price to come forward is firmer at 4s. 4d. to 4s. 5d. c.i.f.

CINNAMON.—Ceylon leaf is unchanged at 4½d. per lb. on the spot, and easier for shipment at 3½d. c.i.f. Mysore leaf is quoted at 8s. 6d. per lb. c.i.f. Mysore leaf free from eugenol is being introduced to perfumers at 4s. 6d. per lb. spot.

CITRONELLA.—Ceylon is quoted at 2s. 6d. per lb. in large drums. Parcels afloat are 2s. 1d. to 2s. 3d. c.i.f. according to position. Java is unchanged at 2s. 10½d. to 2s. 11d. on the spot.

CLOVE.—English distilled is 9s. 6d. per lb. on the spot, which would be shaded for quantity. Mysore oil afloat is quoted at 8s. 6d. c.i.f. American is offered at 9s. c.i.f. for shipment.

DILL.—B.P. oil distilled on the Continent from East Indian seed is quoted at 24s. per lb. East Indian and other distillates not described as B.P. are offered variously at from 12s. to 14s. per lb.

EUCALYPTUS.—Spot quotations for good-quality 70 to 75 per cent. cineol are firm at 1s. 4½d. to 1s. 5d. per lb. For higher cineol content 1s. 6d. is asked.

GERANIUM.—Spot quotations for Bourbon are steady at about 23s. to 24s. per lb. Algerian is firm at 40s. per lb., and may advance when small spot lots, which are offering at below this, are cleared.

GINGERGRASS.—Inquiries for "insoluble" have been made recently; holders are quoting about 8s. 6d. to 9s. per lb.

JUNIPER BERRY.—B.P. oil is cheaper on the spot at from 5s. to 5s. 6d. per lb., and for shipment at from 4s. 6d. to 5s. c.i.f.

LEMON is weak on the spot at 2s. 9d. per lb., and 2s. 8d. c.i.f. to arrive.

MINT.—Japanese dementholised Kobayashi-Suzuki is dearer; sales are reported at 5s. 9d. to 6s. c.i.f., with 6s. 1½d. now asked. On the spot 6s. 3d. is quoted. Up to 6s. 6d. is reported paid.

ORANGE.—Sicilian sweet is unchanged at from 11s. to 12s. per lb. on the spot or c.i.f. to arrive. West India sweet remains steady at 10s. 6d. on the spot and 10s. c.i.f. to arrive.

PALMAROSA.—Inquiries, which have been fairly numerous recently, have found the spot market almost cleared except for small lots, which are offered at 16s. 6d. per lb. New crop oil is not due for about two months.

PATCHOULI.—Penang is unchanged at from 35s. to 37s. 6d. per lb. American distillate is offered at about 36s. 6d. Mysore is 40s.

PEPPERMINT.—American natural tin oil is quoted at from 15s. to 16s. per lb. For shipment 15s. 6d. c.i.f. is quoted. There has been very little buying interest shown since the higher rates were established. Dutch blended oil has been selling at 15s. to 18s. per lb., but stocks are much reduced, and on the basis of the price of American oil next shipments will be higher. Sales of French Mitcham have been made at 32s. 6d. per lb., at which price there is no more offering.

ROSEMARY.—Spanish is quoted on the spot at 1s. 8d. per lb. in drums. Sales of French have been made at 3s. 6d. per lb., at which there are sellers.

SPEARMINT.—American is unchanged at 15s. per lb. on the spot.

SPIKE.—Spanish is unchanged at from 3s. 2d. to 3s. 6d. per lb., as to quantity.

VETIVER.—Bourbon is quoted at from 21s. to 22s. 6d. per lb. on the spot, according to holder.

Pharmaceutical Chemicals, etc.

"STILL QUIET" sums up the general reports to hand this week. In a number of products spot holders seem willing to accept prices which incur a loss in order to clear. This is brought about by the many Continental offers which are coming to hand, offering probably doubtful material at low rates. Bromides are decidedly weak. Citric and tartaric acids are again somewhat easier.

ACETANILIDE remains quoted at 1s. 4d. per lb., with most business at a slightly cheaper rate.

AMIDOPYRIN has cheapened down to 16s. per lb., and is all very flat.

AMMONIUM BENZOATE remains on offer at 4s. per lb., with very little doing.

ASPIRIN stands quite firm at 2s. 10d. to 3s. per lb., with a steady but limited demand.

BARBITONE is again offering at lower rates, 9s. to 9s. 6d. now being asked, but still neglected.

BENZALDEHYDE (.03) remains at 3s. per lb., with business all slow.

BENZOIC ACID holds steady but rather quiet at 1s. 6d. to 1s. 9d. per lb.

BENZONAPHTHOL is steady on a dull market at 4s. 9d. to 5s. per lb.

BETANAPHTHOL (RESUBLIMED).—There is no further drop in price from last week's quotation of 1s. 10d. per lb.

BROMIDES.—With considerable stocks now on hand and very little inquiry, spot holders, in some quarters, are inclined to accept prices much below those generally quoted: Ammonium, 10½d. to 11d.; potassium, crystals and granular, 8½d. to 9d.; and sodium, 8½d. to 9d. per lb.

CALCIUM LACTATE stands steady but not at all active at 3s. 3d. per lb.

CHLORAL HYDRATE.—Duty-paid is steadier after last week's cheaper quoted price at 4s. 6d. to 4s. 9d. per lb.

CITRIC ACID.—Good stocks are available on spot, with but very small demand being made. Values may be taken as being inclined to weaken from the usual quotations of 2s. 3d. per lb., less 5 per cent. for B.P. crystals.

CREOSOTE.—B.P. is unchanged on a quiet market at 3s. 9d. to 3s. per lb.

GUAIACOL CARBONATE holds fairly steady but still neglected at 8s. 6d. per lb.

HEXAMINE has gone in buyers' favour, with spot now offering from 2s. 10d. to 3s. per lb.

HYDROQUINONE is now offered at the cheaper price of 2s. per lb. on spot.

METHYL SALICYLATE is now steady, with occasional business being done: 2s. 2d. to 2s. 4d. per lb.

METHYL SULPHONAL is seldom inquired for at 15s. per lb.

PARAFORMALDEHYDE continues unsteady, with quotations round about 3s. per lb.; market remains dull.

PARALDEHYDE holds at 1s. 5d. to 1s. 6d. per lb., with some little activity.

PHENACETIN stands steady at about 5s. per lb., with the market dull.

PHENAZONE is now fairly steady at the cheaper rate of 7s. per lb.

PIPERAZINE on the spot is steady at about 3s. 3d. per lb., but seldom called for.

POTASSIUM PERMANGANATE.—B.P. is unsteady as quoted at 9d. per lb.

POTASSIUM SULPHOGUAIACOLATE is nominal at 8s. per lb.

RESORCIN is unchanged on a quiet market at 7s. per lb.

SAFROL.—Spot sellers quote 3s. per lb., which is cheaper.

SALICYLIC ACID is quite steady with a fair demand at 1s. 4½d. to 1s. 5d. per lb. as to quantity.

SALOL holds at the better price of 2s. per lb., with slightly less for large quantities.

SODIUM BENZOATE is now steady at the cheaper price of 1s. 5d. to 1s. 7d. per lb.

SODIUM SALICYLATE is again a shade easier on spot, with first-hand suppliers quoting: Powder, 2s., and crystals, 2s. 2d. per lb.

SULPHONAL remains neglected, with offers unchanged at about 15s. per lb.

TANNIC ACID.—Leviss is steady but still quiet at about 3s. 3d. per lb.

TARTARIC ACID has been decidedly slow this week, and with plenty of material available the market has a decided tendency to move in buyers' favour. Quotations are at about 1s. 4d., less 5 per cent.

THYMOL is unchanged at 19s. to 20s. per lb.

Industrial Chemicals, etc.

London, August 23.

THE volume of business being transacted in this market is still comparatively small. Both the home demand, which seems to be confined to a small range of products, and the export markets, where conditions remain very unsettled, continue decidedly quiet. Current prices show but very little change on the week.

ACETIC ACID holds very firm and continues in brisk demand, especially for the better grades: 80 per cent. technical, £39; 80 per cent. pure, £45; 98 per cent. glacial, £67 10s. per ton, in casks and demijohns, ex wharf, London.

ACETONE is a good market, with limited orders being placed round about £76 per ton in drums for British Government specification.

ALUM continues steady and in occasional demand at £13 10s. to £14 10s. for home and export respectively.

AMMONIA (ANHYDROUS) is unchanged at 1s. 9d. per lb. for 99.95 per cent., but the market is weak.

AMMONIUM CHLORIDE is a shade easier on spot at 31s. 6d. to 32s. per cwt. for grey galvanising.

AMMONIUM SULPHATE for export has advanced to £17 to £17 10s. per ton, according to destination.

ARSENIC.—There is not much business passing, but, in view of the rather more marked lack of fresh supplies, the tone is firm, only few sellers being reported of anything like good lots of Cornish white powder, the price asked being mostly £44 per ton delivered London. Foreign arsenic, however, might be obtained at well below this, but, so far as can be ascertained, there is not much of this on offer.

BARIUM CHLORIDE is steady on spot and in small supply at £21 to £21 10s. for 98 to 100 per cent.

BLEACHING POWDER (35 to 37 per cent.) continues in restricted demand at unchanged rates: Home trade, about £12; export, about £13 per ton.

COPPER-SULPHATE.—There has been a continuation of rather dull conditions as regards the export trade, and the unrelaxed keen competition has tended to keep the market on the easy side. Business is being taken by Lancashire makers down to £26 per ton f.o.b. for casks, less 5 per cent., but this can hardly be regarded as a true rendering of the market, as some large makers appear to be able to place their brands at around £27. The home outlet is certainly disappointing.

CREAM OF TARTAR is an easy market as quoted at about 108s. to 110s. per cwt. for spot, and forward prices are steady at 105s. c.i.f., less 2½ per cent.

EPSOM SALTS hold at £6 5s. per ton for commercial quality but there is little demand for the parcels floating about on spot.

FORMALDEHYDE holds exceedingly firm at £70 per ton on spot, but there has not been much doing.

GLAUBER'S SALT is unchanged but not at all active at £5 per ton, in bags.

OXALIC ACID remains rather quiet at 7½d. per lb.

POTASH, CAUSTIC (88 to 92 per cent.), is now steady on spot and from British makers at £30 per ton.

POTASSIUM BICHROMATE has been in better demand, and is quoted at 6½d. per lb. on a steady market.

POTASSIUM CHLORATE is quoted at 4½d. per lb., with some parcels perhaps a shade less.

POTASSIUM PRUSSIAN is very firm for what little there is available. Yellow is 1s. 6d. to 1s. 6½d. per lb., and red about 4s. 9d. per lb.

SAL AMMONIAC.—All grades are somewhat easier again this week, with the demand poor. Dog-tooth crystals, 52s.; medium-sized crystals, 47s. 6d.; fine white crystals, 32s.

SALTCAKE has been inquired for in large quantities, with most makers round London sold out. Steady at £4 5s. per ton f.o.b.

SODA ASH (58 per cent. light alkali) continues very sluggish on spot, and quoted prices are weak: London,

£9 5s.; Manchester, £8 5s. per ton. Makers' price for home trade is about £7 17s. 6d. per ton, and may shortly be reduced.

SODA CAUSTIC.—British makers' prices to domestic consumers stand level, as last reported, at: 70 to 72 per cent., £20 5s.; 76 to 77 per cent., £22 5s. per ton, but a further slight reduction may take place shortly. Dealers' offers are steady at level rates: 70 to 72 per cent., £20; 76 to 77 p.c., £22 per ton, in drums, ex wharf, shipping port. There is but little inquiry on spot.

SODA CRYSTALS are firm at £5 15s. per ton from British makers, in bags, carriage paid to destination.

SODIUM ACETATE remains slow, with spot offers in the region of £23 10s. to £24 per ton.

SODIUM BICARBONATE on the spot is unchanged at £10 15s. to £11 per ton. British makers quote at £10 10s. per ton, in bags, delivered, for home trade only.

SODIUM CHLORATE seems to be a shade easier, with values between $3\frac{1}{4}$ d. to $3\frac{1}{2}$ d. per lb. Some few inquiries are about.

SODIUM HYPOSULPHITE.—Pea crystals on spot are steady but in slow demand at about £19 10s. per ton; commercial is £14 per ton.

SODIUM NITRITE holds at about £30 per ton on a dull market.

SODIUM PRUSSATE, for which there is a fair demand, is firm at about $11\frac{1}{4}$ d. per lb. on the spot.

COAL-TAR PRODUCTS, ETC.—Pitch stands very firm at high rates. Pure methyl alcohol is now steady. Other products are unchanged on the week. Pitch is brisk and firm at 82s. 6d. per ton. **ANILINE OIL** and salt remain lifeless at 1s. per lb., packages free. Pure **METHYL ALCOHOL** is now quite steady at the better price of £65 per ton, ex wharf, London. **CRESYLIC ACID** holds quite firm at 2s. 4d. per gallon, naked at makers' works. **CREOSOTE OIL** remains steady but quiet at 6d. per gallon. **CARBOLIC ACID CRYSTALS** are unchanged at $5\frac{1}{4}$ d. per lb. on a quiet market. **PYRIDINE** is steady but flat at 5s. 9d. per gallon. **HEXAMETHYLENE** is offering at 3s. per gallon, with little doing. **NAPHTHALENE** is quiet, with values level on the week at £17 per ton. Crude, £4 to £7; crystals, £15; powder, £15; balls, £25; candles, £34; and tablets, £34 per ton, packages free.

Fixed Oils, etc.

LINSEED OIL has fallen in value considerably on the week. Turpentine closes inactive and weak. Generally the markets remain decidedly slack, with quoted prices maintained with difficulty.

ACID OILS.—This market has been very quiet, and closing prices show a further slight fall in values. Coconut, 36s.; palm-kernel, 36s.; groundnut is scarce and worth about 36s. **CASTOR OIL.**—Prices ex mills Hull are nominally unchanged at: Pharmaceutical, 57s.; first pressings, 52s.; second pressings, 50s., in not less than one-ton lots. **COCONUT OIL** has been flat throughout, with prices unchanged: Deodorised, 47s.; Ceylon, 40s.; and Cochin, 44s. **COTTONSEED OIL.**—The quiet tone last reported continues, with current prices unchanged at: Deodorised, 47s.; common edible, 45s.; soap-making, 43s.; crude, 40s. **GROUNDNUT OIL** has been dull, and closes a shade easier: Deodorised, 54s.; and crude Oriental, 47s. **LINSEED OIL.**—During the past week this market has eased off considerably, and has been decidedly flat. At the close prices were lower at: Raw, naked, on spot, 39s.; August, 37s. 3d.; September-December, 35s.; January-April, 33s.; Hull, on spot, 40s. 6d.; August, 38s.; September-December, 34s. 6d. The shipments to America have, as expected, fallen off, while the total exports during July amounted to 3,308 tons. The aggregate for the seven months represents 27,086 tons, the production of which would require roughly 140,000 tons of linseed. Although the Continental make is now on a considerable scale, it seems to be easily absorbed, while trade stocks are said to be still very low. **PALM-KERNEL OIL.**—There has been no improvement in business. Closing prices were: Deodorised, 46s.; crude, 39s. **PALM OIL** is much steadier this week, and there has been a little more business doing. Lagos, 33s.; softs, 32s.; hards, 32s.

RAPE OIL.—A quiet tone continues, with prices maintained at high rates: Refined, 52s.; and crude, 47s. **SOYA-BEAN OIL.**—With prices quoted unchanged this market has been flat all the week: Deodorised, 47s.; crude, 40s. **TURPENTINE (American).**—Early in the week this market took on a firmer tone, and prices advanced to a considerable extent. A much quieter tone has since prevailed, and the market closes practically inactive, with a decided tendency towards cheaper rates. On spot, 90s.; August 90s.; September-December, 91s. Visible stocks total about 12,000 barrels, compared with 14,500 same time last year, when the price quoted on spot was 64s.

ANIMAL AND FISH OILS, TALLOW, ETC.—Throughout this market business has been poor, but so far no material changes in prices have taken place. However, most of the markets are weak, and likely to go in buyers' favour before long. Tallow and fish oils remain sluggish. **BONE GREASE.**—Prices have advanced early in the week, but the market then quietened down, closing easily at: Pale water, 33s. 3d.; brown, 31s.; and benzine, 31s. **NEATS FOOT OIL** is from 5s. 3d. to 5s. $7\frac{1}{2}$ d. per gallon, according to acidity. **PALE HORSE OIL** is steady at 38s. per cwt., delivered in small lots. **ENGLISH LARD OIL** is unchanged at 62s. to 74s. per cwt.; American prime winter strained lard oil, on spot, London, 75s. **FISH OILS.**—There has been no improvement in demand, but so far prices are maintained, with the market unsteady: Filtered pale whales, 37s. to 42s.; filtered brown, 30s.; filtered dark brown, 27s.; thickened, 39s.; brown whale cake, 23s.; brown stearin, 21s.; refined sperm oil, 39s.; best refined Southern sperm oil, 40s.; seal oil, 24s. to 42s.; white seal oil, 42s.; English Coast cod, 30s. 6d.; hardened whale oil, 39s. to 42s.; in barrels, ex wharf, London. Cheaper quotations ex provincial ports. **TALLOW.**—The business done of late has been comparatively small, and the last auction was decidedly slow. Stocks on hand must now have accumulated again, but the firm tone reported from shippers in Australia is having the effect of holding up spot rates, which are unaltered on the week: Australian, fine mutton, 42s.; fine beef, 42s. 6d.; good mixed 40s.; inferior, 35s.

LUBRICATING, MINERAL, BURNING OILS, ETC.—Lubricating oils are reported as being a little steadier on spot, but still quiet. Benzol is much steadier. Petroleum jellies are slightly easier. Other products are unchanged on the week. **BENZOL** is now steady, with a slightly improved demand, at 1s. 11d. per gallon, f.o.r. makers' works, in buyers' packages. **BURNING OIL.**—Crude, No. 3, 8 $\frac{1}{2}$ d.; No. 2, 8d. per gallon, barrels free; still but little doing, with rates unchanged. **FUEL OIL.**—The reduction in prices, as recorded last week, have not resulted in better business. 905 to 910 gravity, £4 2s. 6d.; 950 gravity, £3 5s. per ton, ex tank. **NAPHTHA** is quite steady and in moderate demand at 1s. 10d. per gallon. **SOLVENT NAPHTHAS.**—Both grades—90 to 160 and heavy 90 to 190—are quiet, with quoted rates steady at 2s. per gallon, drums extra. **PARAFFIN WAX AND SCALE.**—Wax is unchanged at $2\frac{1}{4}$ d. to $3\frac{1}{4}$ d. per lb., in bags, according to melting-point; scale is firm at 2d. for spot, white 122° to 140° F.; yellow, 1 $\frac{1}{2}$ d. c.i.f. for prompt shipment. **PETROLEUM OILS** stand firm at the old rates: American standard white, 1s. 4 $\frac{1}{2}$ d.; water white, 1s. 5d. **PETROLEUM JELLIES.**—Slightly lower prices are now being quoted for the better grades, but business is very slow: Snow white, £64; white B.P., £61 10s.; yellow, from £24 to £43; red vet, £19; ruby red, £21; dark stiff green, £18 10s., ex wharf, London, barrels free. **SPECIAL OIL**, for Diesels and motors, is still quoted at 10d. per gallon, with little doing. **WHITE OILS** continue quiet, with rates unaltered: Special No. 1, £43; No. 1, £39 10s.; No. 1A half-white, £35, drums free; No. 2 half-white, £28, in barrels, ex wharf, London. **LUBRICATING OILS.**—It is now the general opinion that there will be no further reduction in any of the grades of crude, the recent lowering of prices having had the effect of stopping further drilling: Pales, £12 10s. to £24 10s.; reds, £15 to £30; dark cylinders, £15 to £35; filtered cylinders, £20 to £37; blacks, £8 to £19, ex wharf, London, less 2 $\frac{1}{2}$ per cent. **SOLUBLE OIL**, £23 10s. per ton.

Japanese Drug and Chemical Markets

Osaka, July 21.

AGAR-AGAR.—As is well known, there are two standard grades for this commodity: Shinshu (or Yokohama) quality and Kobe quality, and both are classified into three grades, Nos. 1 to 3. The Kobe quality is always 10 per cent. higher than the Shinshu. In consequence of unusually warm weather prevailing at the beginning of February last, considerable damage has been done to the crop, and prices per kin. are steadily advancing, details being as under:—

Description.	January, 1922	Feb.-March, 1922	June-July, 1922
	Yen	Yen	Yen
Shinshu No. 1 ...	145.00	195.00	220.00
Shinshu No. 2 ...	139.00	183.00	212.00
Kobé No. 2 ...	162.00	210.00	240-250
Kobé No. 1 ...	170.00	220.00	230-240

The average annual output is: Shinshu quality, 250,000 kin.; Kobe quality, 800,000 kin. This year: Shinshu quality, 1,000 kin.; Kobe quality, unknown. (Kin=1.3 lb.)

The stock of Shinshu appears to be exhausted.

INSECT FLOWERS.—Owing to favourable weather, the crop this year is reported to be very good, but to-day the drug is being quoted at yen 5.50 per kan (8.23 lb.), the highest recorded recently. Therefore, it is generally expected that the price may be reduced to yen 5.50 some time in the coming fall. The demand is very large during the summer, decreasing towards autumn.

INSECT POWDER.—The present price is yen 1.05 per lb., which is an advance of 15 sen per lb., comparing with that of a month ago.

IODINE (JAPANESE).—The demand in Japan has been very brisk recently and the price has advanced to yen 8.00 per lb., with a further upward tendency. During the war large quantities were exported to the U.S.A., China, India, Australia, and European countries, but nowadays practically no exports are taking place on account of the price being too high.

MENTHOL.—The present price (yen 13.50 per kin) has been maintained for the past few months. Though suppliers are of the opinion that the market will prove firm in the immediate future, yet orders or inquiries coming from overseas buyers are limited to small quantities for immediate use. The pre-war price was yen 4.50, and the highest price during the war was yen 23.00 per kin.

MINT OIL.—The present price is yen 3.25 per kin, compared with the pre-war price of yen 1.40; the highest price during the war was yen 6.00 per kin. The demand has been limited to Europe and Asia.

POTASSIUM IODIDE.—The market condition is practically the same as Japanese iodine (see above), the price being about yen 7.70 per lb.

QUININE.—Japanese quinine is represented by the "Hoshi" brand, which company is exporting their products largely to America and other countries. However, it must not be forgotten that Japan has been buying Java product packed in 100 oz. in a case, prices of which are: Sulphate, yen 1.50 per oz.; hydrochloride, yen .80 per oz. A large part of the demand in Japan is being supplied by the Java product.

WAX (VEGETABLE).—The present price is about yen 40.00 per 100 kin in export tin-lined cases of 224 lb. The well-known brands are "Kitagumi," "Shimizu," and "Chikusan."

German Chemical and Drug Markets

The market report, dated August 15, of a leading Hamburg wholesale drug house, prefaces its quotations with some extremely pessimistic remarks concerning the desperate straits to which Germany, Austria, Hungary, Russia, and Poland are reduced to in consequence of the depreciation of their currencies. Some bitter observations are also made regarding the failure of the last, the thirteenth, conference, which ended without bringing about a "political detoxication," and failed to effect anything in the way of reconciliation between the peoples. In the existing circumstances it is practically impossible to draw up a market report, and the report closes with the following note: "While this report was in the press a further catastrophic fall in the value of the mark has taken place, so that nearly all the quotations have become null and void. We must therefore request our friends to ask by wire for quotations when in the market." The following quotations are in marks per kilo:

ACETIC ACID (glacial).—98 to 100 per cent. is m. 140; for export £53 per ton.

ACETANILIDE has been in brisk demand at advancing prices, reaching m. 275; for export m. 325.

ACETYSALICYLIC ACID.—Prices have been recently advanced by makers; offered at m. 500; for export m. 825.

ANTIPYRINE has been in good demand and has fetched m. 1,600; for export m. 1,850.

ASPIRIN.—The price of genuine has been advanced by makers to m. 1,400; for export m. 1,900.

BALSAM PERU.—Genuine original is offered at \$4 per kilo. Ordinary commercial and Ph.G.V. has been chiefly purchased for export. For the home market it has been in demand at m. 1,200; for export 7s. per kilo.

BENZALDEHYDE, almost free from chlorine, for foodstuffs is firm and in increased demand at m. 250.

CALAMUS ROOT.—Local stocks have been extensively purchased by foreign buyers at m. 30.

CAFFEINE (pur.) has advanced to m. 3,900.

CITRIC ACID.—In consequence of the exchange has advanced to m. 325; for export m. 815, whereby the demand has slightly declined. In view of scanty supplies it is very firm.

COLCHICUM CORM.—Stocks are small at m. 45.

CONDURANGO.—Orders can be filled at m. 135.

CREAM OF TARTAR (98-100 per cent.) is very firm owing to small stocks; quoted at m. 275; cream of tartar for export is being sought for.

COUMARIN is in brisk demand, particularly for export, and the price has advanced by leaps and bounds to m. 2,600; for export m. 2,700.

ERGOT.—In spite of increased offers, particularly of new crop, the demand continues to be brisk, and m. 900 is being willingly paid for home.

GLYCERIN.—Increased demand has led to an advance in price to m. 260 for double-distilled 28°.

GUAIACOL CARBONATE is m. 1,750; for export m. 1,850. Guaiacol crystals, m. 1,100 for the home market, at which price it is cheap and neglected.

TARTARIC ACID has been very appreciably advanced by manufacturers. For the present it can be supplied below makers' price at m. 420 crystals, powder m. 420; for export m. 450 for crystals and powder. The demand is much brisker than is the case for citric acid, and it shows signs of advancing in price.

VANILLIN.—Manufacturers have advanced the price to m. 9,000, and consequently the demand has increased for cheaper supplies. Offered from former deliveries at m. 8,500 for home trade.

[It will be noticed that some articles are quoted for the home market—viz., Germany, in shillings or in dollars.]

Sodium Hyposulphite Imports

With reference to the circular (C. & D., August 12, p. 225) notifying members of the British Chemical Trade Association of the result of the appeal case heard before the Referee against the inclusion in the key list of sodium hyposulphite, pea crystals, it appears that, despite the clear definition of "photographic quality" given in the award (93 per cent. or thereabouts purity and upwards), imports of pea crystals that are good enough for photographic purposes, and irrespective of their percentage of purity, will be seized by the Customs, and probably deemed liable to duty. The question of the correctness of the interpretation given to the Referee's award is being contested, the result of which members will be advised in due course. In the meantime it must not be taken for granted that pea crystals of a lower percentage than 99 per cent. will be allowed in free. Members importing pea crystals on which duty is levied should demand particulars of the analysis, and if well under 99 per cent., are advised to pay under protest. Particulars of any seizures, the result of the Government analysis, and whether duty was demanded or not will greatly assist the Association in their activities on this matter.

The U.S. Tariff Bill

The American Tariff Bill, as amended by the Senate, passed that body on August 19. The tariff now comes before a conference with the House of Representatives. The House passed the measure on July 21, 1921, the Senate began to discuss it four months ago, and the bill has been continually before the Upper Chamber ever since. As it now stands, it is an almost complete revision of the bill which emerged from the House. The amendments number more than two thousand, of which the great majority represent a substantial increase over the rates passed by the House, notably in the case of basic commodities, such as wool, cotton, sugar, steel, and chemicals. Certain important new features (says the Washington correspondent of the "Times") have been inserted by the Senate. The chief is the granting to the Chief Executive of broad powers to change rates if, after investigation by the Tariff Commission, he should find that the disproportion between the costs of production in America and abroad should warrant such action. There is also a provision for the establishment of a free trade zone at large ports of entry in the United States, where raw materials could be received and manufactured and shipped out without payment of Customs duties, thus doing away with the bonded warehouse system. Whether the tariff will reach the President for signature before the November elections is more than doubtful.



Weights and Measures

SIR.—It is a pleasure to learn that the Pharmaceutical Society is to support the suggestion that the British Medical Council go back a step and adopt the dual system of weights and measures as in the British Pharmacopœia of 1898; but will they not go just one step further backwards still and urge the truly English system of the 1857 Pharmacopœia as regards weights and measures? Let us also avoid "parts" and "fluid parts." Except in the analytical and assay part of the work, no advantage has been secured, and endless muddles have been created. If the dual system is reverted to, it is devoutly to be hoped that the systems will be approximately the equivalent of each other, to save confusion in the learner's mind. There are simple approximate calculations for conversion into the metric system, if such is desired; but, since all present-day dispensing is in the old style, there will be little need for such except in the characters and tests part. Another muddle might be also dealt with, viz., "solids by weight and liquids by measure." It is a most pernicious doctrine, and certainly does not, and never did, apply to the British Pharmacopœia; for it is notorious that in certain places even water is ordered to be weighed. Advice to prescribers and dispensers on ambiguous points might also be included in their recommendations.

Yours faithfully,

ABEL SCHOLAR.

The Struggle for Existence

SIR.—Your correspondent "Jay Mack," in his characteristic letter of advice to "McCawber" (*C. & D.*, July 22, p. 139), certainly hits the nail on the head more than once in his remarks concerning emigration to the "big new States like Texas, Dakota, California," and on keeping away from the large cities. If a young man is willing to work reasonably hard and does not mind doing many other things he has never been called upon to do before as a pharmacist, and to do his best to adapt himself to new conditions of life generally, he might do much worse than cross the water to make a living in our calling just now, as there are opportunities open for good men at times, even in New York. But the man who is proposing to leave the old country should think twice before he does so, or he may find that he has jumped out of the frying-pan into the fire. The first thing he is up against is that he has to start as an unregistered man in the States; and it takes some time to get a diploma now—quite different from the conditions that obtained years ago. Salaries for registered men in New York range from \$35 to \$50 a week, which is pretty decent as times go; but a pharmacist is just as liable to be called upon to dilate upon the merits of a walking doll, marked down to \$2.98, or to sell an alarm clock, as he is to compound a prescription. Pharmacy has many different branches from which to shake the plums off. If there are not enough sick people to give us a decent living, we have to sell all kinds of odds and ends to the public, who seem to like it—and, seeing we are sensible business men, we like it too; there's money in it. These United States are full of opportunities for the sober, reliable, hard worker who has his head screwed on the right way, and does not mind learning how, and doing things our way.—Yours faithfully,

New York.

"THE MAN FROM LONDON."

Window-displays

SIR.—My letter on "Window-displays" (*C. & D.*, July 1, p. 35) is the subject of an article contributed by Mr. G. E. Marfitt, Leicester, to the August number of a drug-trade house-organ. Mr. Marfitt is an expert on window-displays, and I do not profess to have had so much experience as he has; but I still hold my opinion

that the single-line show is a doubtful proposition for the small man. I am, like a good many other pharmacists, the possessor of only one establishment, limited to one window; and at present I see no way of altering it. I have tried the single window-show, and I have also tried a single display one week and general goods following (over a considerable period), and the results were unfavourable. By keeping an account of general sales of other goods, I found that the boosting of one line was only done at the expense of others, and over the whole period there was no advantage. Mr. Marfitt advises giving single displays of different goods for a fortnight each over the whole year; well, if we take dentifrices alone, a considerable part of the year would be taken up for a start. Then there are all the different brands of face-creams, toilet-powders, soaps, proprietary medicines, and foods; I could make out a list of single displays that would monopolise my window for years without ever showing the same line twice or showing my own products at all. If I wish to "feature" a special line, I give it either the floor of the window or a whole shelf, and then the following week, when changing the window, I give it a follow-on in a less prominent position, as I find that the effect is cumulative. As to whether the public study a mixed window, my experience is that they do; I have at times purposely put two or three good lines in different parts of the window, and have had the same customers purchase them together.—Yours faithfully,

WINDOW SHOW (21/8).

The Future of Registered Druggists

SIR.—In last week's issue of your paper "Caveat" takes exception to your statement, in the Educational Number, that Belfast chemists favour the conversion of registered druggists into chemists. Notwithstanding "Caveat's" protest, it is nevertheless true. The abolition of the druggist grade also finds support among members on the Council of the Society. We see hundreds of unqualified dentists who know little or nothing about dentistry being placed on the Dental Register, whereas registered druggists only ask to be admitted after satisfying the examiners in materia medica and practical pharmacy. Surely "Caveat" must admit the reasonableness of our demand. The registered druggists all over the North intend making their power felt in this matter in the near future.—Yours sincerely,

AMICUS (24/8).

Agricultural and Horticultural Poisons

SIR.—The resolution passed at the annual conference of the British Medical Association, held at Glasgow (*C. & D.*, July 29, p. 180), is probably the first resolution favourable to pharmacists ever passed by a body of medical men. There is no doubt that the fatalities which have occurred lately, both accidentally and criminally, from the sale of arsenic have aroused attention to the indiscriminate use of this poison for weed-killers, etc.; and the mistake that was made in allowing such preparations to be sold by horticulturists and other dealers is now recognised, if not openly admitted, by the authorities. It is to be hoped that there will be a return to sanity, and a recognition that the pharmacist is the proper person to deal in poisons.—Yours faithfully,

ARSÈNE (21/8).

Dispensing Difficulties and Notes

A Decomposing Mixture

SIR.—We recently dispensed the following prescription:

Calcii lact.	...	...	...	3iv.
Pulv. trag. co.	...	...	...	3i.
Aq. ad.	...	...	...	3xij.
Ft. mist.				

Four days afterwards the patient brought the mixture back to know if it had gone bad. We found that it smelt strongly of sulphuretted hydrogen. Can you tell us what reaction occurred?

Yours truly,

R. & Co. (7/6).

[Calcium lactate is obtained in considerable quantity in the production of lactic acid, and from this source

able to contain traces of milk albumin. This is certainly a mixture such as you refer to would be certain to give rise to the production of hydrogen sulphide. It may be that you have been supplied with rum lactate of this origin. It is well to secure the purest as can be obtained, on the ground of solubility and avoidance of trouble such as you have experienced.]

An Intractable Cream

SIR,—I should be grateful if you would let me know the best way to dispense the enclosed script :

Zinci oxid.	...	...	...	3ss.
Adipis lanæ	...	...	...	3j.
Aq. calcis.	...	...	ad.	3ij.
Resorcin	...	...	...	gr. v.
Ichthyol	...	...	...	℥xv.
Ol. lavand.	...	...	...	q.s.
Bol. arm., to colour	...	...	...	q.s.

Make into a cream.

I have tried several ways, and can do nothing with it. It had been dispensed previously in Manchester and sent of a nice creamy consistency.

Yours faithfully,

B. P. (3/7).

Place the zinc oxide, wool fat, resorcin, ichthyol, oil of lavender, and Armenian bole in a mortar, along with gr. of saponin and 6 gr. of powdered tragacanth; triturate well together, then add the lime water in about 10 portions, using the pestle freely all the time. In this way is produced a cream which we think will give satisfaction.]

Quinine and Iron in Mixture

SIR,—Kindly let me know how to dispense the following prescription :

Quin. sulph.	...	...	...	3iss.
Tr. ferri perchlor.	...	...	...	3iiss.
Tr. nucis vom.	...	...	...	3iiss.
Aq. menth. pip.	...	...	ad.	3viij.
Ft. mist.	...	...	...

On standing it gives a light brown precipitate, and on addition of more tr. ferri perchlor. or 3ss. or 3j. ac. drochlor. dil. does not seem to dissolve it.

Yours truly,

M.P.S.I. (22/6).

[There is not sufficient acid in the tincture of iron perchloride to retain both the quinine and iron in solution. The quinine seems to appropriate more than its proper share, and in consequence iron hydroxide is precipitated. The addition of a very little dilute hydrochloric acid is sufficient to obviate this result. It must, however, be mixed with the tincture of iron perchloride before it is brought into contact with the quinine sulphate. Diffuse the quinine sulphate in the peppermint water and tincture of nux vomica, then add the tincture of perchloride of iron and dilute hydrochloric acid—about half a fluid drachm—and stir. It is well to be quite sure that the peppermint water is B.P., or at least prepared with distilled water. Tap water promotes precipitation of iron hydroxide in a mixture such as this. 'The Art of Dispensing' has a useful article on similar combinations.]

Precipitate in Mixture

SIR,—What is the best way to make a presentable mixture from the following prescription :

Liq. auri et arsen. brom.	...	...	3j.
Tr. cimicifugæ	...	...	3iv.
Syr. hypophos. co. (sine strych.)	...	...	3j.
Kali brom.	...	...	...
Kali iodid.	...	...	aa. 3j.
Tr. aurantii	...	...	3vj.
Aq. caryoph.	...	...	ad. 3viij.
Ft. mist.	...	...

When the tincture of orange is added last there is a resinous precipitate thrown out, presumably from the

tincture of cimicifuga. Should the last-named tincture be treated as one would tr. cannab. ind.?

Yours truly,

DUBLIN (12/6).

[The product thrown out of solution is chiefly quinine iodide formed by reaction of the potassium iodide with the quinine hypophosphite which is contained in the syrup. The simplest way in which to compound the mixture is to place the potassium bromide and iodide in a mortar and add gradually to them the liquids all mixed together, using steady and continuous trituration. In this way the flocculent precipitate is obtained in a state of very fine division, and when shaken diffuses readily and uniformly, so that when a dose is poured out equal distribution is ensured. The mixture, however, is improved by the addition of 16 gr. of powdered tragacanth, which can be made into a mucilage by shaking it with the tincture of orange, then adding the other liquids mixed together and shaking quickly.]

Salicylate Solution

SIR,—Would you tell me why it is that a solution of sodium salicylate in water throws down a black deposit, the colour of the solution remaining green? I find that different samples of the salt develop colour in solution, but the periods vary. The best sample does not keep for more than two or three weeks. Would you also tell me the cheapest method of keeping a solution in water of ferri et ammon. cit.?

Yours faithfully,

DUBLIN (30/5).

[Salicylate of soda in aqueous solution does not always throw down a black deposit with the supernatant liquid of a green colour. A month ago we prepared a 20 per cent. solution (a) in tap water, (b) in distilled water, (c) in distilled water recently boiled. The solution made with tap water shows a dark tint when held against white paper, but there is no deposit. The other two solutions remain as water-white as when first prepared. The salt used is what is sold as physiologically pure. We have frequently encountered a distinct blackening in mixtures containing an alkali—e.g., sodium bicarbonate or aromatic spirit of ammonia—and we conclude that sodium salicylate which produces a dark solution after a few days contains some alkaline salt in traces. Various suggestions have been made from time to time to obviate the darkening—a piece of gauze tissue damped with acetic acid and pinned on to the end of the cork inside the bottle containing the solution; the addition to the solution of sulphite of soda in small quantity—one or two grains to six or eight ounces of solution. An insistence on purity of the salt, however, seems the simplest way out of the difficulty. The cheapest way to keep an aqueous solution of citrate of iron and ammonium is to prepare the solution strong enough. A solution of which two minims represent one grain of the salt will keep for months. It should be prepared with recently boiled distilled water and preserved in a stoppered bottle. Place the quantity of salt required in the bottle, add sufficient water to produce the proper volume, and allow solution to progress at its leisure.]

Explosive Mixtures

SIR,—The following mixtures have exploded on several occasions after being sent to customers. Can you let us know the reason why, and tell us how we can prevent the trouble occurring?

Faithfully yours,

J. S. (10/6).

I

Ammon. chlor.	...	...	3iss.
Potas. nitritis	...	...	gr. xxiv.
Syr. scillæ	...	...	3ss.
Tr. camph. co.	...	...	3ss.
Inf. senegæ	...	ad.	3xiij.

II

Tr. zingib.	...	...	aa. 5ij.
Bism. salicyl.	...	...	3iij.
Sodii bicarb.	...	...	3iij.
Ac. hydrocy. dil.	...	...	℥xxiv.
Mucilaginis	...	...	q.s.
Aq. menth. pip.	...	ad.	3vij.

III

Potas. brom.	...	...	gr. xxv.
Sp. am. co.	...	...	3ss.
Chloral. hyd.	...	...	gr. vj.
Tr. capsici	...	...	℥x.
Aq.	...	ad.	3ss.

Mitte 3vj.

[No. 1.—Potassium nitrite in contact with an acid is split up with disengagement of nitrous gases. There is free acid in two of the constituents of the mixture—viz., syrup of squill and compound tincture of camphor—and the infusion of senega usually is acid in reaction, so that there are present materials which may be reckoned upon to produce considerable disturbance. The reaction is not one which is quickly completed, but goes on over a day or two. Apart from its explosive nature, the mixture is very unsightly. The disengagement of gas produces frothing with the saponin element of the senega, and the acids throw down a deposit of colouring matter from the compound tincture of camphor and infusion of senega. The only way in which the mixture can be compounded so as to be safe from disturbance is to prepare it with all the ingredients except the potassium nitrite and make it neutral, or, better, slightly alkaline with liquid ammonia, then to add the potassium nitrite. In this way a peaceable and presentable mixture is produced.]

No. 2.—The cause of trouble in this mixture is the reaction between the bismuth salicylate and sodium bicarbonate. In presence of water hydrolysis of the former occurs with liberation of acetylsalicylic acid, which reacting on the sodium bicarbonate gives rise to evolution of carbon dioxide. The energy of the reaction depends on the temperature. In cold weather it may go on for days, so slowly as not to be observed, owing to absence of sufficient gas to produce any explosive effect; in warm weather it may produce a "blow up" in quite a short time. The only way to prevent trouble after the mixture has been sent out is to complete the reaction before it is despatched. This can be accomplished by using some heat to hasten it. The two salts can be heated together with the peppermint water before the remaining ingredients are added.

No. 3.—Some chloroform is formed in this mixture by the alkali of the aromatic spirit of ammonia splitting up the chloral hydrate. The reaction is comparatively mild, and scarcely deserves to be designated explosive. Here again it is well to allow time for the reaction to be completed before handing out the mixture, and the time required is short. A gentle heat accelerates the reaction.]

Legal Queries

A. W. and J.M. (17/8).—The use of the possessive case and the mention of an ailment on the label are both circumstances rendering the preparation liable to duty.

G. & R. (18/8).—There must be a disclosure of the composition of the embrocation on the label, in some way officially recognised, before it can escape liability to stamp duty. See *C. & D. Diary*, 1921, pp. 255 *et seq.*

T. F. B. (18/8).—OBTAINING A WINE-LICENCE.—An applicant for a new licence has to give the following notices: (1) An advertisement in a local newspaper of his intention to apply. This is to be inserted on some day not more than four and not less than two weeks before the date of the licensing meeting. (2) Within twenty-eight days before the meeting a notice of the intended application has to be put up between the hours of 10 a.m. and 5 p.m. on two consecutive Sundays on the door of the shop and also on the door of the parish church. (3) At least twenty-one days before the licensing meeting notice of the intention to apply for the licence has to be given in writing, preferably by registered letter, to (a) one of the overseers of the parish in which the premises are situate, (b) the superintendent of police of the district,

and (c) the clerk to the licensing justice. If the licence is granted it has afterwards to be confirmed at Quarter Sessions.

F. A. (12/8) has been called upon to pay a sum for income-tax for the year 1920-21. The amount is correctly charged upon the income he made for that year; but as he had served three years and nine months in H.M. forces during the war, and the year 1920-21 was the first year since his demobilisation in which he earned any money, he wishes to know if there is any concession which he can claim because of his service. [In strictness of law there is no concession, but it is the practice of the Commissioners of Inland Revenue to allow the military pay to be taken for the purpose of getting the three years' average for income-tax where the person assessed has served with the Forces—that is, where the assessment is on profits under Schedule D, not under Schedule E, where the person assessed is in the employ of a limited company or corporation. "F. A." ought to write to "The Secretary (Taxes), Somerset House, London W.C. 2," setting out the facts of his case, stating what rank and pay he had in the Army, when he was demobilised, and what his income was for each of the three years ended April 5, 1921, and ask that some allowance should be made on account of his military service.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to the origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor publish supposed formulas for them.

Wellmus (23/8).—Inquiries must be accompanied by the name and address of the sender.

F. R. (16/8).—PRICE OF PRESCRIPTION.—The following is the pricing of the prescription you send on the *C. & D.* costing system:

		d.
Bismuth carb.	...	3vj. 15.0
Sodii bicarb.	...	3j. 1.0
Cret. precip.	...	3vj. 1.0
Spt. chlorof.	...	3ij. 2.5
Tinct. rhei co.	...	3ij. 9.0
Tinct. eard. co.	...	3j. 4.5
Ol. menth. pip.	...	℥xxx. 2.0
Aq. ad.	...	3xvj. 3.0
Dispensing oncost	...	8.0
Container	...	4.0
		50.0

Charge, 4s. 2d.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," August 15, 1922

Assistants' Salaries

We have of late received a good many letters from assistants who seem to have become infected by the epidemic discontent which is flowing over nearly all classes of employes. We publish one specimen this month. We are not unaware of the fact that chemists' assistants have to work for very long hours, and that their pay is very moderate, nor are we indifferent to this fact. But we wish to indicate one or two points which disincline us to take the matter up with any energy. In the first place, there is no sort of doubt that both as regards hours and pay a vast improvement has taken place even within the last ten years. Salaries, too, are, on the average, double what they were a quarter of a century ago. Then, again, it should be considered that assistants in shops, as a rule, are not burdened with housekeeping, as are most other employes; and it is the rapid increase in the cost of housekeeping expenses which has been the foundation cry of all our strikes. In the case of indoor assistants, it would be rather an argument for reducing the pay for augmenting salaries. Finally, and chiefly, we would remark that in so far as the business of a chemist and druggist approaches a profession, so certainly will the salaries of assistants be low. This is explainable, but we do not propose to enter on the theory now.

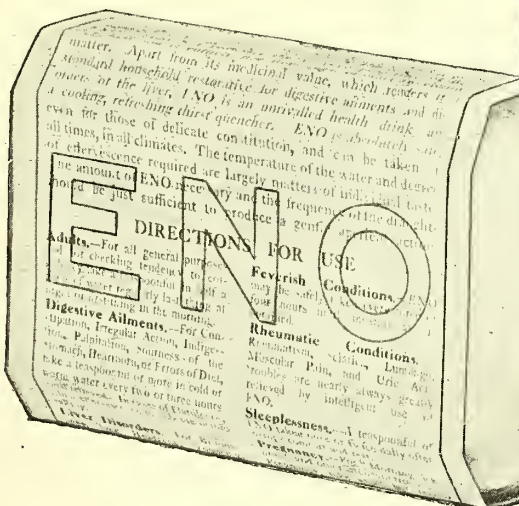
Holiday Hints

Recommend the
1/9 Size ENO to
your Customers

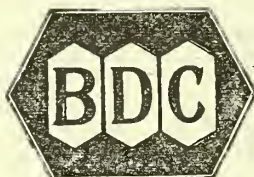
Now is the time to increase your ENO sales by calling your customers' attention to the 1/9 Size ENO for packing in the holiday bag. They will quickly appreciate its convenience and advantages, for our advertising is continually emphasizing the wisdom of carrying ENO when travelling. Display ENO prominently, and it sells itself. If you buy on the best terms your profit on the 1/9 Size is 5½d. per bottle and 9½d. on the 3/- Size.

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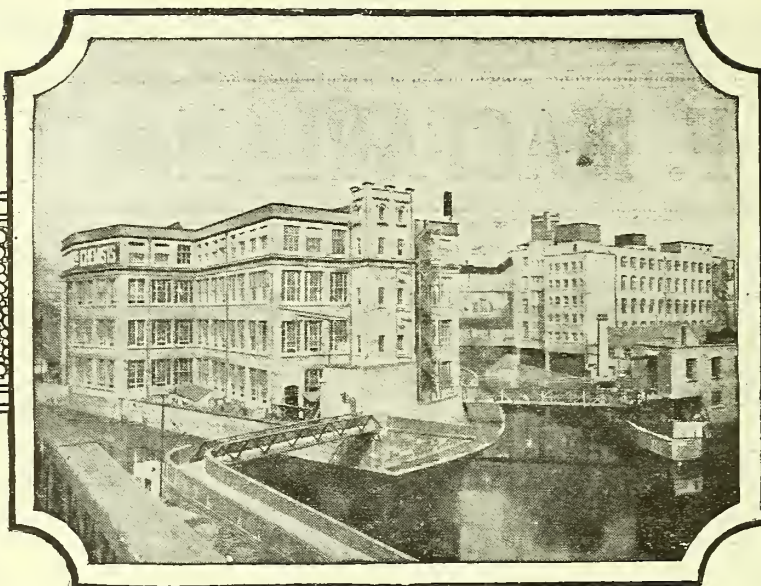
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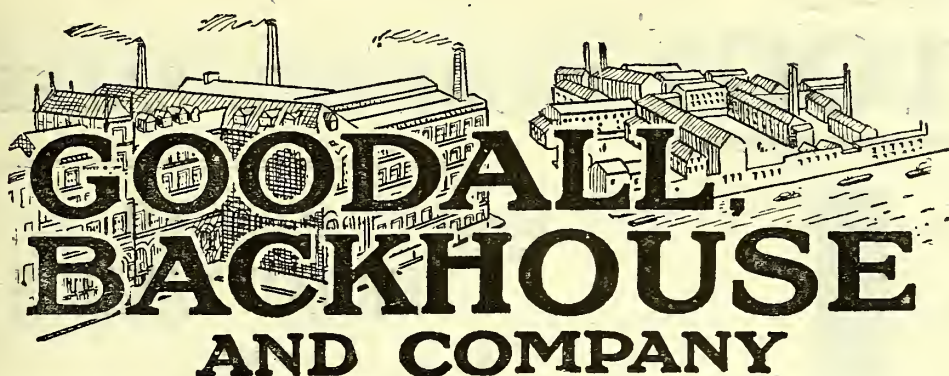
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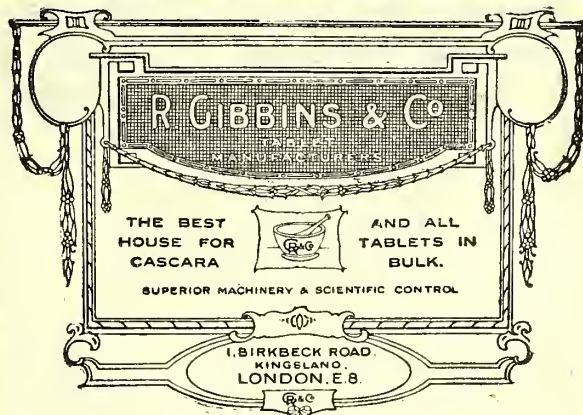
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Pure Concentrated Extract of the Richest Root. Contains no added substance. Very soluble, smooth to the tongue, and entirely free from grit. Made where the root grows, under the supervision of a British staff. Not a sweetmeat, but a High-class Pharmaceutical Article.
APOLLO IS VERY RICH IN GLYCYRRHIZIN.



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NET PRICE

1 gross, delivered carriage paid and in free case to your door, £7.

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CONSIDER "Daisy" from a thoroughly business-like point-of-view—the point of view you have *got* to have to be successful to-day—and you will see how wise you would be to push it *hard*.

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50/- per gross

1/3 2½ times

90/- per gross

BONUS AS USUAL.—
In comparing values,
remember Quality and
Efficiency come first.

SPECIAL NOTE.—The only alteration in retail price is the present 9d. size, which will sell at 7½d. after June 1st. The 9d. Price will be supplied until that date at the reduced rate (in order to clear big Contracts of printed boxes), after which we shall supply small slips to all customers requiring the new price.

Bottled Bismuthated Magnesia "Red Band" Super Recipe.

1/3 Size, now 7/9 dozen.

2/3 Size, 14/- dozen.

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"RED BAND" CHEMICAL CO.

RICHMOND TERRACE, EDINBURGH

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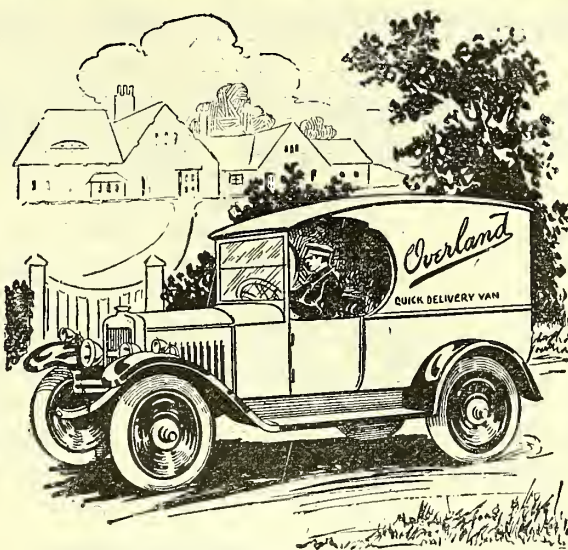
BECAUSE

IS PRE-EMINENTLY
THE CHEMIST'S BRAND

LIQUORICE JUICE

- 1 IT IS RECOGNISED AS SUCH BY THE LEADING MEDICAL JOURNALS.
- 2 IT IS RECOGNISED AS SUCH BY CHEMISTS AND THE PUBLIC, AS IS PROVED BY ITS UNINTERRUPTED SALE OF OVER 100 YEARS.
- 3 THE SALE IS HELPED BY STEADY AND INTELLIGENT ADVERTISING. ASK YOUR WHOLESALE FOR OUR LATEST HANDBILL. IT WILL INTEREST YOU AND IT WILL INTEREST YOUR CUSTOMERS.

THE OVERLAND VAN is exactly suited to the needs of **CHEMISTS, DRUGGISTS, PHARMACIES, LABORATORIES, STORES, etc.,** and all others requiring a light, quick-delivery Van, really economical in first cost as well as in cost of operation.



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THE D. FÈVRE SELTZOGENE

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None genuine unless bearing the words "Veritable Seltzogene D. Fèvre" and the Trade Mark Signature.

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Fountain of Health

If you have a
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will pay the fee.

If not, get one,
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Send for any

You agree to display
"Vin Sanguis" always.
You give us an
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You always keep stock

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Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.

Grade A.	STRENGTH 16°5'-17° Abs. Alc.
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A. MILLAR & CO., LTD., DUBLIN

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Alcohol for Industrial Purposes

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DELIVERY FROM STOCK

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ensure a GOOD PROFIT on "The Chemists' and Druggists'" Retail price list and give a Thoroughly Satisfactory

CLINICAL THERMOMETER

Their "V.O.S." and "DOUBLE EASY" appeal to all who appreciate first-class workmanship, and are quite ahead of the Minimum Test of N.P.L.

It has come to our knowledge that a so-called "Double Easy" Clinical not of our manufacture is being offered. Purchasers are warned that Powell's "Double Easy" is the original and only genuine one.

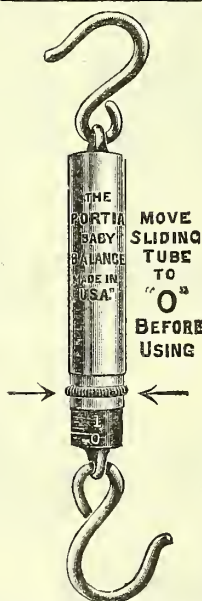
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H**TEATS, SOOTHERS, RUBBER GLOVES, SURGICAL RUBBER GOODS**Samples and Quotations gladly sent by **ENGLISH REPRESENTATIVE, 35 NEW CAVENDISH STREET, W.1.****BUY DIRECT****ELARCO RUBBER GOODS****The LONDON RUBBER CO.** 183 Aldersgate Street
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A Medicinal plaster for the treatment of hard corns. Removes the most painful corn in 48 hours. Easy to apply, sure to stay. Retail price 9d. for four. 1/3 for eight treatments.

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for which there is a universal demand, will increase your profits and custom. "Scholl" Appliances are medically endorsed and nationally advertised. Feature them constantly in your window dressings and obtain your share of the demand we create.

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Manufacturers and Patentees of

SURCO SEAMLESS HOSIERY

 In Light qualities for Summer
wear, or Stout for hard wear.

 Old Style
With Seams

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Patent Seamless

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Articles made to measure dispatched in 24 hours.

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Medical & Surgical Plasters.

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August 4, 1922.

Public Analyst's Report.

REPORT ON A SAMPLE OF LIQUID
PARAFFIN MARKED E 870a.

Specific Gravity at 60° F - 892
 Viscosity at 100° F (Red-
 wood No. 1 Viscometer) 265"
 Cloud Test - - - - 15 F

The sample is colourless, transparent,
 odourless and tasteless, and has no
 fluorescence.

A mixture of four millilitres of the sam-
 ple, two millilitres of absolute alcohol
 and two drops of a clear saturated
 solution of lead oxide in solution of
 sodium hydroxide, when kept at 70° C
 for ten minutes, remained colourless.

When three millilitres of the sample
 are heated with an equal volume of
 sulphuric acid in a test tube placed in
 boiling water for ten minutes with
 frequent shaking, the acid layer, after
 separation, is not darker than pale
 brown.

Ten millilitres of 90% alcohol when
 boiled with five millilitres of the
 sample are not acid to litmus.

The sample complies with the require-
 ments of the British Pharmacopœia
 except in specific gravity.

Signed ROBERT REDWOOD.

NOTE.

It will be perceived that the oil has a
 specific gravity of 892 and is therefore
 HIGHER than the B.P. standard.

STERNS

New Grade

PARAFFINUM LIQUIDUM B.P.

S.G. 890

High Viscosity. Non-Congearing

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THE CHEMIST AND DRUGGIST

SUPPLEMENT

CANNON ST.
LONDON E.C. 4

AUGUST 26, 1922

Supplement is inserted in every copy of The Chemist & Druggist.

THE SUPPLY OF SUPPLEMENTS.

The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

Addressed Wrappers Stamped One Penny

must be sent. Loose stamps will not be accepted.

EARLIER CLOSING FOR PRESS. Will advertisers please note that until further notice it will be necessary that Advertisements be sent in not later than the **FIRST POST THURSDAY MORNING.**

CHEMISTS' TRANSFERS.

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Telephone No.: City 2283.

May be consulted at their Offices on matters of **SALE, PURCHASE and VALUATION.**

NORTH LONDON (Main Thoroughfare).—Ready money and Dispensing Business in prominent position; returns £5,000 per ann. under management, at good prices; new will be granted; price £3,500; further details on receipt of reference.

LONDON, S.W.—Manager, with view to succession within twelve months, for Cash Retail Business, with N.H.I. sing; returns average £2,600 per ann., with scope for sale; net profit, about £650; rent £48; held on long lease; investment would require about £1,800.

KENSINGTON.—Family Retail and Dispensing Business, established 75 years; returns, present rate, about £1,500 per ann.; gross profit 40 per cent.; single-fronted shop; good stock; held on lease; rent £60, sublet £91. Price £950.

SOUTH KENSINGTON.—Good-class Retail and Dispensing Business; returns about £3,500 per annum, with scope for considerable increase, under energetic management; full prices obtained; well-fitted, single-fronted shop, fully stocked; held on lease. Price £2,750.

MIDDLESEX (Few Miles Out).—Good-class Suburban Business, Retail and Dispensing; returns last year, £2,200; all prices; double-fronted shop, fitted in mahogany and stocked; held on lease at net rental of £55 per annum. To be arranged equitably.

LONDON, W.—Retail and Dispensing Business; modern, fitted shop, fully stocked; returns exceed £6,000 per annum, scope for considerable increase under personal supervision; lease will be granted at rental to be agreed. To effect speedy transfer, the sum of £2,000 would probably be required.

MAYFAIR.—Old-established Retail and Dispensing Business; net profit in 1921 was £465; the upper part of the premises is sublet, leaving the rent of the shop at £40 per m.; long lease will be granted. Terms, valuation of stock and fixtures and sum for lease.

8.—**SOUTH COAST (Popular Health Resort).**—Cash Drug Stores, with Stationery, Confectionery, and Tobacco; returns, about £70 per week, more in season; there are two shops, with living accommodation; vendor owns the property, and would sell same or grant leases; to effect a speedy transfer a moderate sum would be accepted for the Businesses; suit unqualified.

9.—**EASTERN COUNTIES (Market Town).**—General Retail and Dispensing Business, with Kodak Agency; returns, present rate, exceed £2,600 per annum; net profit, £600; double-fronted shop, well fitted, and fully stocked; long lease; further details on application.

10.—**WEYMOUTH (Near).**—General Retail and Dispensing Business, with Optics; returns last year, £2,550; net profit, about 25 per cent.; the shop is well fitted and stocked; there is ample living accommodation; terms, goodwill £250, stock and fixtures at valuation; freehold, £2,000; part payment entertained.

11.—**NORFOLK.**—Unopposed Country Retail Business; very old-established; returns, present rate, £1,800 per annum, at good prices; single-fronted shop; good house, in excellent repair; private entrance, and large garden; 21 years' lease, at moderate rental; price about £1,200.

12.—**MIDLANDS.**—Small Glass Bottle Manufacturing Business, also Perfumery Business, suitable as adjunct to an established Wholesale house; scope for considerable extension under energetic management; 6 large workrooms; rent, £39 per annum; price £550.

13.—**SOUTH WALES.**—Old-established Business, with Wine and Spirit Licence; returns last year, £3,220, at good prices; house contains 10 large rooms, private entrance; 17 years' lease; no opposition; price to be arranged.

14.—**BRIGHTON.**—Cash Drug Stores; returns, present rate, £23 per week, scope for considerable extension under personal supervision; single-fronted, lock-up shop; rent, £55; new lease will be granted; price about £900.

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Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone **Profit, value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

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 Telephone—1809 CENTRAL.

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4. LONDON SUBURB (S.E.).—Sound, middle-class cash business in main road position. Returns £1,800. Kodak agency. Good house and garden; low rent, on lease. Well stocked shop, newly fitted. Price for prompt sale, £1,250 cash.

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2.—WORKING PARTNER required, with capital of £600, in small Druggists' Sundries Business. Particulars on application.

3.—KENSINGTON, W.—Well-fitted Pharmacy; established 60 years; premises held on lease with 7½ years to run; rent £60. Full particulars on application.

4.—WOOLWICH.—Drug and Herbal Stores; in busy thoroughfare; premises held on weekly tenancy; lease might be granted; premises consist of shop, parlour, and large room above; scullery and shed at rear; long garden; business established 10 years; under qualified proprietorship business could be greatly improved; good scope for Dentistry, Optics, and N.H.I.; price about £800; fullest particulars on application.

5.—Small Wholesale Manufacturing Chemist Business for disposal; owners of several registered trade-marks.

6.—Proprietary Article for Sale; business has good connection among Chemists; full particulars on application.

7.—PORTSMOUTH.—Established over 20 years; Retail Pharmacy; well fitted and stocked premises, held on lease, 6 years to run, with 14 years option; rent, £40; dwelling accommodation; fullest particulars on application.

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MANCHESTER Agent, qualified Chemist, working Manchester and district within a radius of 30 miles, has room for her good house in non-clashing lines; has good connection, will give keen service to goods of repute. Address, A. R. Rawsons Chambers, 82, Market Street, Manchester.

ADVERTISER, well known, is prepared to take up one or two first-class lines for representation in the Channel Isles; stock and distribute if necessary. Full particulars to representative," 11, Halkett Place, S. Helier, Jersey.

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RENCH firm of Manufacturing Perfumers, established over 45 years, require live Agents to take up the sale of their first-class products in U.K.; splendid prospects of large business and big profits. Replies in strictest confidence with fullest particulars to "G/HM.," 37/34, Office of this Paper.

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SOUTH WALES, colliery district.—Retail Chemist's Business in best street; lock-up, commodious premises, held on lease low rental; good profits; scope for increase; price £1,100. Only. 39/26, Office of this Paper.

WESTERN CITY, residential district.—Select Dispensing and light Retail Business; returns average £100 per month; cash scope for increase; low rent; new lease granted; price £1,050. Particulars on receipt of references; no agents. 29, Office of this Paper.

WESTON-SUPER-MARE.—Double-fronted Shop with good living accommodation; side entrance, with garage for five; freehold and free from ground rent; immediate possession; excellent opportunity for Chemist and Motor Engineer; price £700 (or near offer). Apply, P. E. Culling, 24, Moorland ad, Weston-super-Mare.

FOR SALE, Business of Medical Botanist in the centre of Sheffield; main road; good position; valuation, which includes stock of chemists' sundries, electric light and interior fittings by good cabinet makers, £750; established 40 years; tenant possession of large house attached. A. W. Franks, 102, Conshiere Street, Sheffield.

FOR SALE, cheap, good Shop, 5, Church Street, Padiham, near Burnley, Lancashire; splendid position, main street; tenant; also the fixtures (if desired), comprising counters, nests, drawers, shop rounds, jars, show carboys, show jars, &c.; to be taken by appointment. Apply, R. A. Wilkinson, 66, Blackburn ad, Padiham.

OLD-ESTABLISHED Chemist's Business for disposal, near Tower Bridge; no near opposition; now a lock-up shop; rental, £70 per annum, but income of £26 from tenant reduces to £44; Kodak agency; No. N.H.I., which could be added optionally; family Retail, Prescribing, and some Dispensing; returns about £1,600, last 7 months £884; price £950. Apply, R. A. P.C.B., 55/2, Office of this Paper.

FOR SALE.

AS whole or singly, Piano-shape Wall Case, Glass, also Mahogany Cupboards, Mirrors, Drawers, Counter, Bent-glass Counter Cases, Window Enclosures, Fittings, Glass Shelves, Carboys, Shop Rounds, Jars, Scales, Oliver Typewriter, Safe. If desired purchases may remain till end September. View. Hair-sine & Co., 47, Haymarket, London, S.W.

DISPENSING Balances, by Avery, new, perfect, bargain, £4 10s. Davies, 30, Rothschild Road, Chiswick. Phone: Chiswick 423.

OVER 200 Mat. Med. Specimens in unique portable cabinet; bargain. Weinhrann, 104, Clapham Road, London, S.W.

NATIONAL Cash Register, £5 19s. 11½d.; Ticket Printer, detail printer, 5 assistants, Autographic, nearly new, £29; No. 652-G., 1,471,843. Scott, 49, Parkhurst Road, Holloway.

PARTNERSHIPS.

WEST OF ENGLAND.—A qualified man (young preferred) wanted immediately, to take sole charge of Retail Business with small Wholesale; present proprietor having taken another business, is unable to give attention required. Salary and share profits; capital required, £250 to £300. 38/27, Office of this Paper.

I AM a live Pharmacist with ability, experience, ideas, and £500. I wish to meet another business man, qualified or not, who would entertain a sound investment on a sleeping partnership basis or otherwise. I am at present the successful Manager of a West-End Pharmacy, age 27, having good credentials, and a varied country, West-End, and Continental experience. Replies, in confidence, "Ambizioso," 36/20, Office of this Paper.

WORKING Pharmacist, capital £1,000, desires position in good-class Business; view to early partnership or succession. 38/26, Office of this Paper.

BUSINESSES WANTED.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

A SOUND Chemist's Business or Drug Store wanted; cash up to £600, or larger concern entertained on mortgage; must stand strictest investigation; replies treated in confidence, and banker's reference given.. "X.A.X.A.," 37/3, Office of this Paper.

DRUG Store or Mixed Business wanted, suit unqualified; living accommodation essential; garden preferred; capital £500; balance, if any, by arrangement. Full particulars in strict confidence. "Scotland," 36/22, Office of this Paper.

GENUINE Chemist's Business wanted in good neighbourhood with living accommodation; turnover, about £3,000, and capable of increase; must bear strict investigation. Kindly send particulars, which will be treated with confidence, to 39/6, Office of this Paper.

GENUINE Chemist's Business required by Pharmacist, yielding about £500 per annum net profit; London suburbs or Home Counties; living accommodation necessary, if possible; cash available and immediate negotiations. Replies, in confidence, "Omega," 39/12, Office of this Paper.

PHARMACIST is open to purchase for cash genuine Business returning up to about £2,000, in healthy seaside resort or good country town; Kodak agency; good house essential; North or West of England preferred, but not essential. Full particulars to "Justice," 39/38, Office of this Paper.

SMALL Business wanted; country town preferred; neglected one not objected to; cash available, £600. Replies treated in confidence. "Chemist," 38/36, Office of this Paper.

WANTED, good-class Family and Retail Cash Business; turnover about £1,500 to £2,000, capable of increase; coast town preferred, but not essential; healthy situation and good living accommodation indispensable. Details of shop, house, stock, fixtures, turnover, and profits in strict confidence. "X.," 40/5, Office of this Paper.

YOUNG Pharmacist requires small Business in country town; preference Radnorshire, Montgomeryshire, Shropshire, or Herefordshire; active interest with elderly chemist not objected to. "Chemist," Talwrn, Mochdre, Newtown.

£5 PAID for information, if acted upon, for good opening for Chemist; anywhere. Apply, 37/28, Office of this Paper.

SITUATIONS OPEN.

[HOME.]

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

BOURNEMOUTH.—A vacancy will occur on September 11 for a competent Assistant, with a good knowledge of high-class retail; qualified preferred. Apply, with particulars of experience, age, salary required, and enclosing a recent photograph, to J. K. Matterson, 12, Arcade, Bournemouth.

BRADFORD.—Qualified Locum required for about 10 days, terms, etc., and when at liberty. 40/18, Office of this Paper.

BRISTOL.—Junior Assistant wanted for quick Retail, Dispensing and Photographic Business. Apply, stating age, height, salary required (outdoors), references, photo, and when disengaged, to F. Moss, 206, Redland Road, Bristol.

HULL.—Wanted, unqualified Junior Assistant (outdoors), used to high-class Retail and Dispensing Business; no N.H.I. or Sunday duty. Send full particulars, age, reference, and salary required, to S. T. Kirtin, 35, Louis Street, Hull.

LONDON.—Wanted, qualified Assistant capable of taking charge; not under 30; married; good Salesman, Window-dresser, and knowledge of Photography. Apply, with full particulars and state experience and salary required in first instance, 34/19, Office of this Paper.

LONDON.—Qualified Assistant for Dispensary and unqualified Counter Assistant for West-End Store; must be thoroughly experienced and good stock-keeper; hours 9-6 and 1 o'clock Saturday. P.C.B., 52/29, Office of this Paper.

LONDON.—Youth required as Junior Assistant in middle-class Business. Apply, giving full particulars as to height, age, experience, salary required, photograph if possible (which will be returned), 38/24, Office of this Paper.

LONDON, N.—Wanted, mid-September, a reliable Assistant (male), quick cash retail and N.H.I. dispensing, in industrial neighborhood. Usual particulars to J. Hearle, 33, Liverpool Road, Islington, N.1.

LONDON, S.W.—Required immediately a young qualified Assistant of gentlemanly appearance and address, for high-class West-End business; must have had really good experience. Apply, giving full particulars, salary expected, etc., 38/29, Office of this Paper.

MIDLANDS.—Unqualified Assistant required for a good-class business; good permanency for single young man of good address; must be a good Dispenser and understand Photography. State salary required and when at liberty. 39/4, Office of this Paper.

MONMOUTH.—Wanted, an Unqualified Junior Assistant (male), for good class business; very little Panel dispensing. Apply, stating full particulars as to experience, salary, &c., J. Evans, M.P.S., Chemist.

OSKEHAMPTON.—Wanted, Lady Assistant, experienced in Dispensing; light Retail Business; short hours, no Sunday duty. Apply, stating particulars, age, experience, salary, &c., in or outdoors (applications not answered in 3 days declined), Seth Harry, The Pharmacy, Okehampton, Devon.

PENZANCE.—Wanted, competent Assistant, outdoors, first week in October; easy hours; no Sunday or evening duty; must have a fair knowledge of photographic trade. Apply S. Carter, Chemist, Penzance.

ROCHDALE.—Qualified Manager wanted for branch shop; good Prescriber and Salesman. Please state usual particulars, salary required, in first letter. Application not answered in four days respectfully declined. S. H. Cheetham, Pharmacist, 135, Spottland Road, Rochdale.

SOMERSETSHIRE.—Qualified Assistant immediately, single, for N.H.I. and Stock in small country business; suit elderly person or one seeking a comfortable berth; usual particulars with photograph if possible. 40/21, Office of this Paper.

SOUTH COAST RESORT.—Good-class retail and dispensing business requires smart young qualified Assistant; permanency; outdoors. Applicants must furnish full particulars and state salary required. All letters to "Pharmacist," Ferndale, 51, Galpin's Road, Thornton Heath, Surrey.

SUNDERLAND.—Wanted, qualified Assistant for mixed business; outdoors; single. State usual particulars to Cuth Hodgson, 76, Chester Road, Sunderland.

YORKSHIRE.—Required, September 18, for county to competent all round (including Photography) single, Unqualified Assistant. Particulars of age, height, experience, salary required, references, and recent photograph, 38/40, Office of this Paper.

A SMART unqualified Junior Assistant wanted; must be a Window-dresser and quick Counterman; no Sunday or holiday duty. Apply Brooks, corner of High Street, Broad Deptford, S.E.14.

JUNIOR, young, tall, of good appearance and address, middle-class pharmacy; Photographic experience essential. Full particulars and photo. to Fry, 137, Albert Road, Southsea.

JUNIOR, about 18; indoors; coast town; good personal character essential. "East," 36/24, Office of this Paper.

JUNIOR, male, about 20; good all-round experience. State age, earliest time when disengaged, salary required (outdoors), photo and references, to Oliver & Crick, Maidstone.

JUNIOR Assistant wanted, with knowledge of Photographic work. State salary required (indoor), age, references, experience, with photo if possible, Williams & Smith, Horsham.

JUNIOR required for quick retail; age not more than 25; must be tactful salesman, capable window dresser, and afraid of work. Letter with references, stating salary required in first instance. The Prosser Roberts Co., 323, Walworth Road, S.E.

LADY Assistant wanted, for Retail, Dispensing, and Photographic Business; about 4 or 5 years' experience; one preferred with home in London as the berth is outdoor. Apply personally, or with full particulars, to Enness, Chemist, 91, E Street, Wandsworth, S.W.

LOCUM, qualified, used to West-End, from September 2. Full particulars and salary required to "Pharmacist," 227, Corporation Street, West Ham.

LOCUM wanted from September 2 for a fortnight; qualified and experienced. Full particulars, Cater, Stoffell & Fildes, Ltd., Bath.

MESSRS. Holman, Ham & Co., Ltd., Exeter, have a vacancy for a gentleman with good knowledge of Optics and Photography. Apply, in first instance, with full particulars of experience, references, and salary required, to Arnold, 1, Tiverton Road, Exeter.

MODERN Store Chemist, qualified, with first-class business experience; capable salesman with thorough knowledge of Photography and tasteful Window-dresser. Full particulars when disengaged, references, &c., to 10/516, Office of this Paper.

QUALIFIED Assistant with West-End experience required for a gentlemanly position. Personal application only. Gould & Co., North Audley Street, off Oxford Street, London, W.1.

QUALIFIED Manager for cash chemist and herbalist business; good Prescriber, with knowledge of Botanical Drugs; energetic Salesman and Window-dresser with pull ideas; previous all-round experience; good salary and prospect to right man; middle of September; undeniable references; guarantee required. "Radix," 36/30, Office of this Paper.

QUALIFIED, abstainer, Minor, required in September; permanency, for comfortable easy berth in Wales; age 45-50; single; must be energetic and obliging. Enclose salary required, photo, and references, which will be returned. 37/1, Office of this Paper.

QUALIFIED Manager for light Retail and Dispensing Business; married preferred, but not essential; splendid opportunity for a capable and energetic man; participation in profits offered. "Manager," 39/400, Office of this Paper.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

QUALIFIED Assistant required about September 20, with good Counter and Photographic experience. Apply, giving particulars, age, salary required, &c., to A. P. Tilley, Market Burslem, Staffs.

QUALIFIED Assistant required (London); first-class experience; good Counterman, reliable Dispenser; knowledge of photography essential. Apply, by letter, giving full particulars, 520, Office of this Paper.

100 YEAR.—A vacancy for smart qualified Manager for up-to-date Store trade at seaside town; must be good and able to make shop attractive. Apply, with fullest particulars, age, experience, &c., to 37/32, Office of this Paper.

WHOLESALE.

40 words or less; 6d. for every additional 10 words or less, prepaid.

ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

ADVERTISING.—Opportunity occurs for recently qualified man to learn Pharmaceutical Advertising in department of London wholesale firm; ability to write crisp English and knowledge of the advertising "game" are more essential than experience. Send full particulars of age, qualifications, experience (if any) and salary required to 10/513, Office of this Paper.

OLD-established firm of Manufacturing Chemists require a salesman for London and the provinces. Applicants must have good knowledge of Toilet Soaps, Perfumes and Toilet preparations. Good prospects are offered to an intelligent man who has had experience, and who has a good command of salary, commission, and expenses. Give full particulars to 39/7, Office of this Paper.

MIST'S SUNDRIES.—Established firm (Manchester) open to negotiate with experienced Traveller to work and extend good connection; ample scope and every encouragement for capable salesman. Full particulars as to experience, salary, covered, remuneration, &c. in first instance, to 37/4, Office of this Paper.

Travellers, with sound well-established connections, may do to their commission by carrying a non-inflammable remover; good selling line, and commission on all territories. Territories now vacant: Midlands, North and South of England. Norris Manufacturing Co., Ltd., 35, Cardigan Birmingham.

REPRESENTATIVE wanted by firm of fine Chemical Manufacturers to call on Wholesale Druggists, Shipping Houses, London and in the Provinces; previous experience essential. Write, giving full particulars of experience, age and salary to 10/314, Office of this Paper.

REPRESENTATIVE (London) wanted by Specialists in Toilet articles; must be able to influence business and have live connection. Write fully, "P.C.B." 53/4, Office of this Paper.

REPRESENTATIVES wanted for the Midlands, South Wales and West of England, for well-known pill and tablet house, on commission basis. Part time not objected to where interests do not clash. Applications giving full particulars, stating salary covered, will be treated in confidence. "N. D." 10/319, Office of this Paper.

REPRESENTATIVES wanted for all parts of England, Scotland and Wales, on good commission basis, to further the sale of high-class Medicated Goods, in bulk and packed. Applicant must have good, reliable connection and be first-class salesman. No others need apply. Give fullest particulars in confidence. Apply 10/515, Office of this Paper.

ESMAN wanted to sell bulk Perfumes; must have good connection; excellent commission. C. A. Critchley & Co., Manufacturing Chemists, 19, Cardwell Place, Blackburn.

ANTED. Travellers calling on Chemists to offer a first-class Water, on liberal commission only. Reply, The Drug Co., Ltd., 106, Aldborough Road, Seven Kings.

ANTED. Travellers with live connection among Retail Chemists in Lancashire, Yorkshire, Midlands, and North to carry as side-line unique Curative Antiseptic; won efficiency proved; commission basis only; good prospects for energetic men. Apply by letter, with particulars of connections and district covered, etc., to "Antiseptic," Parry Pinner's Hall, Austin Friars, London, E.C.2.

[Colonial, Indian and Foreign.]

AUSTRALASIA.—Surgical Instruments. Manager wanted to take charge of Surgical Instrument Department of wholesale and retail house in Australasia; must be thoroughly reliable with highest references. Apply, in writing, with full particulars, to "A. F.," The British Drug Houses, Ltd., 22-30, Graham Street, City Road, N.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A.A.A.—ARE you seeking a smart young man (26) as Manager or Assistant? If so, please communicate at once with me. Low salary. You will be satisfied. "Chemist," 19, St. Mark's Road, E.8.

A COMPETENT Pharmacist; 34; Locum registered R.P.U.; disengaged September 12; or permanent. D. S. S., 27, Sundew Avenue, Wornholt Estate, Shepherd's Bush, W.12.

A QUALIFIED Chemist, best West-End experience, excellent references, disengaged, desires engagement; London preferred. R. T. Davies, 15, Upper Baker Street, W.

A QUALIFIED Chemist; disengaged; fully experienced; permanency or locum; excellent references. "Chemist," 44, Elmhurst Road, Forest Gate, E.7.

A WOMAN Dispenser (Hall) wants post end September; experienced Hospital, Dispensary, Cash Surgery, &c.; unfurnished rooms liked, not essential; reliable; permanent. Dispenser, 108, Lower Richmond Road, Putney, S.W.

ACTING MANAGER.—Pharmacist desires post as Assistant, or would take control; West-End or City preferred; Dispensing, Counter, and Photographic experience. R. W., 86, Wilton Road, Muswell Hill, N.10.

ADVERTISER, 33, requires post with Firm, Hospital, or Institution; good experience surgical instruments, appliances, drugs, knowledge dispensing; stockkeeping, card index; well recommended. H., 277, Cricklewood Lane, N.W.2.

ALL-ROUND (unqualified, 34); used to up-to-date methods; Counterman, telling window dresser; varied experience; eight years last two situations. Has had entire charge; would manage drug stores, London or near; disengaged. A. W., 9, Penford Street, Myatt's Park, Camberwell.

AN Assistant, referred in Mat. Med., disengaged early in September; excellent references; first-class West End and provincial experience; age 23. Apply 40/10, Office of this Paper.

ANALYTICAL Chemist (25), fair knowledge French and German, ambitious, energetic, hard worker, desires post as Assistant, or otherwise where prospects for ability are good; excellent references. 40/2, Office of this Paper.

APPRENTICE, age 17, tall and well educated, used to Counter work, desires post with Chemist (indoors); Midlands preferred; passed College of Preceptors and School Certificate examinations. Apply, Doris Hall Waterhouse, 4, Gaythorne Road, West Bowling, Bradford, Yorkshire.

APPRENTICESHIP desired by young lady, 5 ft. 10 in., good appearance, in high-class business. Please state terms, etc., "Spero," 38/31, Office of this Paper.

AS Locum or permanency; excellent references and experience; moderate salary; reliable, trustworthy, energetic. Chemist, 17, Cherville Street, Romsey, Hampshire.

ASSISTANT, 37, married; educated Willesden Grammar School; experienced in Dental work. M. L. 15321, Office of this Paper.

ASSISTANT, 20 years' first-class business; abstainer; prize Photographer; tall; energetic; unqualified; or Locum. MacLellan, 4, Arundel Gardens, W.11.

ASSISTANT, unqualified, 34, married, seeks permanency; disengaged. R. Andrews, 6, Northernhay Square, Exeter.

ASSISTANT, shortly disengaged; quick and reliable Dispenser, good Counterman, Window-dresser, and Photographer. "Metol," 30, Alfred Road, Feltham, Middlesex.

ASSISTANT, 22, unqualified, abstainer, requires post; accurate Dispenser and knowledge of Photography. Bull, Wythmail, Hinckley Road, Leicester.

ASSISTANT (23); unqualified; Counter and Dispensing; 7 years' experience; disengaged; Midlands preferred. F. Stanhope, Sandy Lane, Mansfield.

ASSISTANT; 23; unqualified; 7 years' experience, Counter and Dispensing; disengaged. Smith, 108, Rectory Lane, Tooting, S.W.17.

ASSISTANT (23); qualified, requires post; disengaged this week; locum entertained; references. "Chemist," 74, Chewton Road, Walthamstow, E.17.

ASSISTANT; unqualified; experienced, Dispensing, Counter, Photography; (permanent) berth required; age 31; disengaged now. Passingham, George Street, Newton Abbot, Devon.

ASSISTANT (27); unqualified; disengaged; with good all-round experience. G. B., 14, Sebright Avenue, London Road, Worcester.

ASSISTANT (unqualified), having temporarily lost touch with Pharmacy, offers services for small salary to renew experience; high references. Hooper, 33, Gratitude Road, Greenbank, Bristol.

ASSISTANT; 23; unqualified; trustworthy; good experience and reference; Midlands or East Coast preferred. Read, Dingle Street, Oldbury, Wores.

ASSISTANT; whole or part time; 18 years' London experience; best refs.; disengaged. Richardson, 100, St. Leonards Street, Bromley-by-Bow.

ASSISTANT (22); unqualified; good all-round experience; London preferred, not essential. Roberts, 94, Richmond Road, Barnsbury, N.1.

ASSISTANT, Student-Associate, 21, tall, good Dispensing and general experience; photography; excellent references; desires post, preferably in South Yorks (Sheffield-Doncaster). 39/24, Office of this Paper.

ASSISTANT; thoroughly competent; 33; single; tall; 16 years' experience; passed Part I.; first-class references; capable of taking charge. "Aspirin," 38/35, Office of this Paper.

CARNARVONSHIRE.—Lady Assistant, 19, 4 years' London experience in Dispensing, Window-dressing, and Photograph work requires situation in above county. "Assistant," 28, East Hill, Wandsworth, S.W. 18.

CHEMIST'S Assistant, 27; educated Bishop Stortford College; war service, 4 years. M. L., 50785, Office of this Paper.

COMPETENT Lady Assistant, unqualified, 27, desires post with Chemist or Doctor; 5 years' all-round experience. 36/37, Office of this Paper.

COMPETENT qualified Manager, 32, married, wishes to better himself; good Prescriber; excellent references; doubled turnover in last position by hard and conscientious work; S.W. district preferred. 38/22, Office of this Paper.

DISENGAGED.—Experience and ability; none better; Dispensing, keen Counterman; 45; London only; 50s.; unqualified. 38/23, Office of this Paper.

DISENGAGED.—Locum; thoroughly competent, reliable; all-round experience; terms moderate; town or country. "Reliable," 239, Camberwell New Road, S.E. 5.

DISPENSER, 40, married; war service, 4 years; experience as Dispenser; trained Male Nurse and Operating Room Attendant. M. L., 3421/22, Office of this Paper.

DISPENSER (lady), Hall, desires post; good testimonials; experienced Doctor or Dispensary. Mercer, 3, The Shrubberies, Woodford, E.18

DISPENSER (Hall), matriculated; book-keeping and type-writing; Hospital experience Miss White, 131, Welholme Road, Grimsby.

DISPENSER'S Assistant, 26, married; educated L.C.C. School of Pharmacy; war service, 2½ years; Drug Stores experience. M. L., 48877, Office of this Paper.

JUNIOR, unqualified, 4 years' good experience in Counter trade, N.H.I. and Photographic, desires post; cashire preferred. Dickinson 31, Limafield Street, Accrington, Lancs.

JUNIOR, 20, desires situation; used to good-class trade; knowledge of Dispensing, Counter, Stock and Photography. Replies to "Statim," 39/1, Office of this Paper.

JUNIOR; 20; good appearance and address; 3 years' experience, Counter, Stock, Dispensing and Photographic; excellent references; disengaged. "Reliable," 39/5, Office of this Paper.

JUNIOR; excellent all-round experience, Photography Window-dressing; very good refs.; permanency preferred salary moderate. Apply 40/15, Office of this Paper.

LAD, 15½, whose father is in the retail, wants a start. house, 5 Brettell Street, S.E.17.

LADY Dispenser, young, Hall qualification, desires moderate work with Doctor or whole or part time with Institution London or suburbs; 5 years' Hospital experience, 3 years' Head Dispenser. Apply "T," 34, Wymond Street, Putney, S.W.15.

LADY Dispenser (Hall) requires post with Doctor or Institution; good testimonials; book-keeping; now disengaged. 57, Victoria Road, Cambridge.

LADY Dispenser, Book-keeper (Hall) requires post, Doctor Institution; experienced. Apply, "A. K.," 60, Gloucester Place, Portman Square, W. 1.

LOCUM, unqualified; September 2 to 16 inclusive; sea town, country, moderate terms. Statim, 39, Dulwich Hill, S.E.

LOCUM or permanency, unqualified, age 28; 12 years' Dispensing and Counter; London or South preferred; moderate salary. Apply, Smye, 49, Durham Street, Gosport.

LOCUM or permanency; Hall; good experience; disengaged September 7; 58, feel 38; abstainer; single; active; country preferred. "Statim," 100, Great Norbury Street, Hyde.

LOCUM; qualified; capable sole charge; reliable and recommended; moderate salary; first-class references. "Minor," 70, Northgate, Gloucester.

LOCUM; qualified; experienced; disengaged September 30; London district. "Chemist," 100a, Bellenden Road, Peckham.

LOCUM; qualified; reliable; disengaged for fortnight September 7. "M.P.S.," c/o Messrs. Southalls, 1 Priory, Birmingham.

M.P.S. (25), thoroughly capable, terminates leave August 31. Engagement end of August; prefers permanency. Gill, 73, Royal Park Avenue, Leeds.

MANAGER, Assistant, or Traveller; 22; educated Brighton Grammar School; qualified; war service. M. L., 13, Office of this Paper.

MANAGER or Locum; Major qualification. G. S., 13, Albany Road, S.E.5.

MANAGER; experienced; qualified Pharmacist with high testimonials; disengaged. M.P.S., 22, Ellison Road, Barnes, S.W.

MR. PETTIFER, Pharmacist, St. Austell, strongly recommended; unqualified Assistant, age 24, of good appearance, worthy and competent; suitable for good-class Dispensing, Photographic and Retail, in West of England. Address J. R. Walson Wood, Bow, Devon.

MR. PHILLIPS, Chemist, Tenby, wishes to recommend late apprentice, age 20, as Junior. Apply, H. S. Griffiths, 11, Harries Street, Tenby.

OPTICIAN, F.B.O.A., Locum or otherwise; disengaged; suitable for in or outdoors; highest references; would be willing to teach Optics or assist in establishing this desirable addition to a Chemist's Business, on terms; full particulars given on request. Write, "Son of Pharmacist," 38/3, Office of this Paper.

PART 2 Student requires berth in South-West London; 16 years' good experience, Dispensing, Prescribing, and Counter; over 6 ft., and of good appearance. Quampran, 4 Jeffreys Road, Stockwell, S.W.

RMACIST desires Managership with house attached, if possible; good class locality preferred, but not essential; good sound experience; expert Salesman and Prescriber; energetic; of good address and education; excellent references; please state terms in reply. 38/4, Office of this Paper.

RMACIST (30), married, Manager, desires change; sound retail business experience; Dispensing, Photographic and all; excellent references; disengaged end of September. state full particulars and salary. 39/35, Office of this Paper.

RMACY (Retail), 26, married; 4 years' war service; educated Grammar School, Cambridge; languages, French, Latin; fully trained in Pharmacy; taking qualifying M. L. 2360/22, Office of this Paper.

GRESSIVE and permanent berth sought by qualified man, age 38, 5 ft. 8 in.; minor 1912; London, Continental, Hospital; French spoken; accustomed to good class trade and charge; remuneration as commission entertained. "Pharmacy," 39, George Street, Portman Square, London, W.1.

LIFIED, Continental and West-End experience, desires part-time employment, viz., evenings, Sundays; University course full time. Commence October. Rutherford, 26, East End Road, S.E.

LIFIED (21), Silver Medal, Manchester College, second prize, "C and D." Tournament, 1922, desires post in class pharmacy; 6 years' excellent all-round experience. state salary. Buckley, Carlton Road, Godley, Cheshire.

LIFIED Lady (22); high-class and family experience; permanent or permanency; Brighton district. Miss Wellman, Harrington Villas, Brighton.

LIFIED; single; Manager, Assistant, Dispenser; Chemist or Doctor; whole or part time; good references; London. 53/3. Office of this Paper.

LIFIED Chemist (23) desires permanency; reliable Dispenser, and used to high-class counter business; tall, active, willing; highest references.—Gwilym E. Hughes, Rhosmair, Llyn.

LIFIED; lady; "Square"; experienced; disengaged September 15; hospital or retail; London essential. Hughes, Lion Road, Swiss Cottage.

LIFIED, 10½ years' experience, abstainer, single, requires situation in Birmingham or district; disengaged shortly; references. Hicks, 30, Swiss Road, Weston-super-Mare.

LIFIED Locum or Manager; 5 ft. 8 in.; 20 years' first-class experience; permanency desired, London or provinces; references to date. B. Kilvert, 37, Islip Street, Kentish Town, N.

LIFIED lady Dispenser and Book-keeper; 6½ years' experience; unexceptionable references; salary secondary to retail environment. Miss Collins, Dentons Green, St. Helens.

LIFIED, elderly, disengaged; active; wide experience; 7 years last employ; moderate salary; London. Kelly, 8, Bell Park, Lewisham.

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